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FIGURE 517

GGCACGAGCAGGCCCTGGCGTGGCAAAGAGCCGGCGAGCCGGAGACCGCTCCGGAGACGCCGCCTCGCGA
TCCCCGCGGGCGGGACCGGCGGCCATCATGACCCCTGTTCACTCGGGAACTGCTCGCTTGCCTAC
TTCCCCTACTTCATCACCTACAAGTGCACCGACCTATCCGAGTACAACGCCCTGGAAATGCGTCCAGGCTGGA
GTCACCTACCTCTTGCCAACCTGTCAAGATGCTGTTCTGCCACTTCTTCCCACCTGGGAAGGCCGCATC
TATGACTTCATTGGGGAGTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAAGGTCTAACCTTGTCA
CGGAATGCCGGCAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGCTGGCCACTGCTGAGCTTATTATGTCC
CGCTGCATTCCCCTATGGGTGGAGGCCGGGATTGAGTTGACTGGAAGTACATCCAGATGAGCATAGACTCC
AACATCAGTCTGGGTCCATACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTAC
TTCCGGCCAGCTGCTCCTGCTGATGTTCTCAGAGTTACAAGGCCCTTGTATGGAGACGTTGTC
TGCTCGCTGGCAGTTGGGAGTTAATGGCGGGAGTAGTGGTTAAGGGGCTGCTGGTTATCAGAAATTGGCC
ATGTATGTTGCCGGTGTCAATGTGCACTCTAGGCTTGGTGTCTCAGACATTGATGTACCTTCC
TCCAGGTTTAGTGAAGTAAACAGTATTGGAAAGTT

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FIGURE 518

MTLFHFGNCFALAYFPYFITYKCTDLSEYNFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNIISLGPYIVAS
AQVWMITRYDLYHTFRPAVLLMFLRVYKAFVMETFVHLCISLGSWAVIDMAGVVVKGLLIRNLAMYVAVVNHS

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FIGURE 519

CGTATTGCTCGGCCGGGGAGTTGCCCGCCCTGCCCGGCTCCGGCGCGGAGGAATGGCGTGGAAACGGCTGGGC
GCGCTGGTGTGTTCCCTCTACAGATGATCTATCTGGTGGTCAAAGCAGCCGTGGACTGGTGCTGCCGCCAAG
CTGCGGGACCTGTGCGGGAGAACGTCTCATCACCGCGGGAGAGGCATCGGGCGTCAGCTGCCGCCGAG
TTCGCGAGCGCGGCCAGAAAGATTGTTCTCTGGGGCGGACTGAGAAATGCTGAAGGAGACGACGGAGGAG
ATCCGGCAGATGGCACTGAGTGCCATTACTCATCTGTGATGTGGCAACCAGGGAGGAGGTGTACAGACGGCC
AAGGCCGTCCGGAGAACGGTGGGTGACATCACCACCTGGTGAACAATGCCGCCGTGGTCCATGGAAAGAGCCTA
ATGGACAGTGATGATGATGCCCTCCTCAAGTCCCACACATCAACACCCCTGGGCCAGTTCTGGACCACCAAGGCC
TTCCTGCCCGTATGCTGGAGCTGCAGAATGCCACATCGTGTGCCTCAACTCCGTGCTGGCACTGTCTGCCATC
CCCAGGTGCCATCGACTACTGCACATCCAAAGCGTCAGCCTCGCCTCATGGAGAGCCTGACCCCTGGGCTGCTG
GACTGTCGGGAGTCAGCGCACCACAGTGCTGCCCTCACACCAGCACCGAGATGTTCCAGGGCATGAGAGTC
AGGTTCCCAACCTTCCCCACTGAAGCGGAGACGGTGGCCGGAGGACAGTGGAAAGCTGTGCAGCTCAAC
CAGGCCCTCCTCCCTCCATGGACAATGCATGCCCTCGTTATCTGAAAAGCATACTTCCACAGGCTGCACTC
GAGGAGATCCACAAATTCTCAGGAACCTACACCTGCATGAACACTTTCAAAGGGGGACATAGAGACAGGGATGAA
GACATGCTGAGGAGCCACGGAGTTGGGGGCCACAGCACCTGGCACACACCCGAGCACCTGTCCATTGGCATG
CTTCTGCTGGGTGAGCAGGACAGCTCTGTCCCCAGCGAAGAATCCGGCTGCCCTGGGCCAGTCCAGGACCTT
TGCACAGGACTGATGGGTGTAAGTGTAGAGTTATTGTCATTGCTCTCAAGTCTAACCGCCTCAGCAGTGTGCATAGACCA
AACATTCCAGTTCTGTAGAGTTATTGTCATTGCTCTCAAGTCTAACCGCCTCAGCAGTGTGCATAGACCA
TTTCCAGGAGGGCTGTCCCCAGATGCTCTGCCCTTCAAAACCCACTCATCCTCAGCTTGACACAAACTGG
TTGAACGGCAGGAATGAAAAATAAAGAGAGATGGCTTTGTGAAAAAA

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FIGURE 520

MAWKRLGALVMFPLQMIYLVVKAAVGLVLPALKRDLISRENVLITGGGRGIGRQLAREFAERGARKIVLWGRTEKC
LKETTEEIRQMGTECHYFICDVGNRREEVYQTAKAVREKGDITILVNNAAVVHGKSIMDSDDDALLKSQHINTLG
QFWTTKAFLPRMLELQNGHVCLNSVLALSAIPGAIDYCTSASAFAFMESLTGLLDCPGVSATTVLPFHTSTE
MFQGMRVRFPNLFPPLKPETVARRTVEAVQLNQALLLPWTMHALVILKSILPQAALEEIHKFSGTYTCMNTFKG
RT

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FIGURE 521A

GTGGGGTGGGTGGGCTGGGGCTTGTGCCCTTCAGGCCTCACCCCTTGCAGGACATTATAATAGTCATGAT
 CCCAGCGAGACCCAGAGATGCCGTAAATGGTGAGACTTGGATCCTCCTGAGGACGTGGAGAAAACCTTCTGCT
 GAGAAGGACATTTGAAGGTTTGTGGCTAAAAAGCTGTTCTGGAATCACCCCTAGATCTTCTGAAAGACT
 TGAATTAGATTACAGCGATGGGGACACAGAAGGTCAACCCAGCTCTGATATTGCCATCACAGTTGCTACAATCG
 GCTCTTCCAATTGGCTACAACACTGGGTCAATGCTCTGAGAAGAGATCATAAAGGAATTATCAATAAAA
 CTTTGACGGACAAGGGAAATGCCACCTCTGAGGTGCTGCTCACGCTCTCGGTCTGTGGCCATAT
 TTTCGTCGGGGTATGATCGGCTCCTTCCGACTCTCGTCAACCGCTTGGCAGGGCAATTCAATGC
 TGATTGTCAACCTGTTGGCTGTCACTGGTGGCTGCTTATGGGACTGTGTAAGTAGCTAACGTCGGTGAATGC
 TGATCCTGGGTGCTGGTTATTGGCTCTCTGCGGACTCTGCACAGGTTTGTGCCATGTACATTGGAGAGA
 TCTCGCTACTGCCCTGCGGGTGCCTTGGCACTCTCAACCAGCTGGCATGTTGGAAATTCTGGTGGCCC
 AGATCTTGGTCTGGAATTCACTCCTGGGTCTGAAGAGCTATGGCGCTGCTACTGGTTTACCATCCTCCTG
 CTATCCTACAAAGTCAGCCCTCCATTGCCCCATTTGCCCCATGGGACTCTGCTCATTAAACAGAAAAGAAGAGG
 AGAATGCTAACGAGATCCTCCAGCGGTGTGGGGCACCCAGGATGATCCAAGACATCCAGGAGATGAAAGATG
 AGAGTGCAGGATGTCACAAGAAAAGCAAGTCACCGTCTAGAGCTCTTAGAGTGTCCAGTACCGACAGCCCA
 TCATCATTCCATTGTGCTCAGCTCTCAGCAGCTCTGGATCAATGCTGTGTTCTATTACTCACAGGAA
 TCTTCAGGATGCGGGTCAAGAGCCCATTATGCCACCATGGCGGGTGGTTAATACTATCTCACTG
 TAGTTCTCTATTCTGGTGGAAAGGGCAGGAAGAAGGACTCTGCATATGATAGGCCTGGAGGGATGGCTTTT
 GTTCCACGCTCATGACTGTTCTTGTATTAAAGGATAACTATAATGGGATGAGCTTGTCTGTATTGGGCTA
 TCTTGGCTTGTAGCCTTCTTGAAATTGGACCAGGCCATTCCCTGGTTATTGTGGCGAATCTTCAGCC
 AGGGCCCCCGCCAGCTGCAGTGGCAGTGGCGGCTGCTCCAATGGACCTCCAATTCCTAGTCGGATTGCTCT
 TCCCCTCCGCTGCTCACTATTAGGAGCTACGTTTATTATCTCACCGGCTCCTCATTACCTTGGCTT
 TTACCTTCTCAAAGTCCCTGAGACCCGTGGCAGGACTTTGAGGATATCACACGGGCTTGAAGGGCAGGCAC
 ACGGTGCAGATAGATCTGAAAGGACGGCGTCACTGGAGATGAAACAGCATCGAGCCTGCTAAGGAGACCACCA
 ATGTCTAAGTGCGCTCCTCCACCTCCCTCCGGCATGGAAAGCCACCTCCCTCAACAAGGGAGAGACCT
 CATCAGGATGAACCCAGGACGCTCTGAATGCTGCTACTTAATTCTCTCATCCACGCACCTGAGCACC
 CCAAGGCTCGGGTTGTGGATCTCAATGGCTTTAAATTTATTCTGGACATCCTCTGCTTAGGAGA
 GACCGAGTGAACCTACCTTCATTCAAGGAGGATGGCGCTGGCACATGACAACCTTGCGAGCTTCTCCC
 TTGGGTTCTGATATTGCCGACTAGGGGATATAGGAGAGAAAAGTAAGGTGCAGTCCCCAACCTCAGACTTA
 CCAGGAAGCAGATACTGAGTGTGGAAAGCCGGAGGGTGTATGTAAGAGCACCTCCTCACTCCATACAGC
 TCTACGTGGCAAATTAACTTGAGTTATTATCTCTGGTTAATTACATAATTTTTTTTACTT
 TAAGTTCAAGGATACATGTGCCGAATGTGCAGGTTGTACATAGGTATATATGCCATGATGAAATATTAT
 TTTTTAAGCGTAATTGCAAATAATAAAAACAGAAGGAAATTGAGATTAGAGGGAGGTGTTAAAGAGAGGT
 TATAGAGTAGAAGATTGATGCTGGAGAGGTTAAGGTGCAATAAGAATTAGGGAGAAATGTTGTTATTATTG
 AGGGTAAATGATGTGGTGCTGAGGTGCTGTACGTACCTCTTAACAATTCTGCTTCAGATGAAACCTTTA
 ACTTCTCGTAAAGTCATACCTATATAAAAGCTACTGATTCTGGAGCTTTCTTAAGATAATAGT
 TTACATGAGTAGACTGAAATCTAGGATTATTAACATAATGGGATTGAGTTAATGATGGTTGATGGGTT
 TAATTGGATGGAGTCCAGGGAAAGAGAAAAGTGAATTCTAGAAAGCCTGTTCCCTCACTGGATGAAATAACTCC
 TTCTGTAGTAGTCCTACTTGTGAAGTAATCCGCCACCTATCTGTGGAGAGCCATCAAATAAGAAACC
 TAAAATAATTGGTCTGGTAGAGATTCAATTGTTCTTACAGGAGATTTAGGTGTTGATTTTC
 TGTTGTTATTAACTCATACCTTAAAGGAAATTCCCAAAGAATGTTATGCAAACCTGGAATTGTAACCTCA
 GCTCTGGGAGAGGATTTCTGAGCGATTATTCTAAAGTGTGTTGCTTAGGCTCACGGCACGCTG
 GTATGTCGTTACCATGTCAGTGTGGCTCATGCCGAATGCCCTCAGGGGACTGAAATCTTCCAATAACCAGG
 TTAGACAGTATGAGTCATGTGCACTGAGTGTAGGCCACACTTGAGAGGATGAATGTATGCACTGTCACCTTGCTC
 TGGGTGGAAAGTACGTTATTGTTGACTTATTCTCTGTGTTGTTCTACAGGCCCTTCTCATATGTTGCTCAG
 TCTCCCTTCCCTCTGGTCTACACATCTCAGACCCCTTAGCCAACCCCTGTCAGTGACAGTATTGGTT
 CTTAGTTCTACTGTTCCCTGCTCTGGAGCCCTGAATAAAAATGCACGTAGCTGAGGCCGGATGCCGGTGGC
 TCACGCCCTGTAATCCCAGCAGCTTGGAGGCCTAGGCAGGGCGGTCAAGGGGTTGAGGACAGCTGGCCAACATCG
 TGAAACCCCTGCTACTAAAAATGCAAAATTAGCCGGCTGGTGGCGGGCGCTGTAATCCCAGCTACTTGG

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FIGURE 521B

GAAGCTGAGGCAGGGAGAACATGTGAACCCGGGACGCAGGGGTTGCAGTGAGCGGAGATGCATCATTGCACTCT
AGCCTGGGCCACAGGGCGAGACTCCGCTCTCAAAAAAAAAAAATGCACATAGCTATCGAGTGTGCTTAGCTTGA
AAAGGTGACCTTGCACATTCACTGTCAACTTCTGGCTCCTCAAACAGTAGGTTGGCAGTAAGGCAGGGTCCCATT
TCTCACTGAGAAGATTGTGAATATTCATATGGATTTCTATTGTTACTCTGGTTCTTGTAAATAAAAAA
TTCTGAATGTACACG

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FIGURE 522

MGTQKVTPALIFAITVATIGSFQFGYNTGVINAPEKIIKEFINKLTDKGNA
PPSEVLLTSLWSLSVAIFSVGGM
IGSFVGLFVNRFGRNNSMLIVNLLAVTGGCFMGLCKVAKSVEMLILGRLVIGLFCGLCTGFVPMYIGEISPTAL
RGAFGTLNQLGIVVGILVAQIFGLEFILGSEELWPLLLGFTILPAILQSAALPFCPESPRFLLINRKEENAKQI
LQRLWGTQDVSDIQEMKDESARMSQEKKQVTVLELFRVSSYRQPIIISIVLQLSQQLSGINA
VFYYSTGIFKDAG
VQEPIYATIGAGVVNTIFTVVSLFLVERAGRRTLHMI
GLGMAFCSTILMTVSLLLKDNYNGMSFVCIGA
ILVFVA
FFEIGPGPIPWFIVAEFLSQGPRPAAMAVAGCSNWTSNFLVGLLFP
SAHYLGAYVFIIFTGFLITFLAFTFFKV
PETRGRTFEDITRAFEGQAHGADRSGKDGV
MEMNSIEPAKETTNV

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FIGURE 523

CGGCGCCGGGGACCGCTGCCACCCGCCTAGCGCAGCGCCCCGTCTTCCGCAGCCAACCGCCTCTTCCGCC
CGCCCCATCCGCCAACGGGCTCCAGTGGCGGGACCAGAGGAGTCCCCTCGTCGGGAGTATGTCAAGGCCGTG
ACCCGTGTATTATTGTCCGAGTGGCGAACGGAGCCAACATGGCAGCGGGTCTGGCGATGCTCAGGGTCC
TGAGAAGTATTCTCGTTTCAATTGGAGATCACAGCATACAAAAGCCAATCGACAACGTGAACCAGGATTAGGAT
TTAGTTTGTGAGTTACCGAACAGCAGAAAGAATTCAAGCTACTGCTCGTAAATTGCCAGAGAGGAATCATCC
CAGTGGCTGCAGAATATGATAAAACTGGTGAATATCCAGTCCCCCTAATTAGAACAGCCTGGAACTTGGTTAA
TGAACACACACATTCCAGAGAACGTGGAGGTCTGGACTTGGAACTTTGATGCTTGTAAATTAGTGAAGAAT
TGGCTTATGGATGTACAGGGGTTACAGACTGCTATTGAAGGAAATTCTTGGGCAAATGCCATTATTATTGCTG
GAAATGATCAACAAAAGAAGAAGTATTGGGAGAATGACTGAGGAGCCATTGATGTGCTTATTGTGAACAG
AACCTGGAGCAGGCTCTGATGTAGCTGGTATAAGACCAAAGCAGAAAAGAAAGGAGATGAGTATATTATAATG
GTCAGAAGATGTGGATAACCAACGGAGGAAAGCTAATTGGTATTATTGGCACGTTCTGATCCAGATCCTA
AAGCTCTGCTAATAAAAGCCTTACTGGATTCATGTGGAAGCAGATAACCCAGGAATTAGCATTGGGAGAAAGG
AATTAAACATGGGCAGCGATGTTCAGATACTAGAGGAATTGTCTTCCAAGATGTGAAAGTGCCTAAAGAAAATG
TTTAATTGGTGACGGAGCTGGTTCAAGTTGCAATGGAGCTTGTATAAAACCAGACCTGTAGTAGCTGCTG
GTGCTGTTGGATTAGCACAAAGAGCTTGGATGAAGCTACCAAGTATGCCCTGGAAAGGAAACTTCCGAAAGC
TACTTGAGAGCACCAAGCAATATCATTATGCTGGCTGAAATGGCAATGAAAGTGAACTAGCTAGAATGAGTT
ACCAGAGAGCAGCTGGAGGTTGATTCTGGCTCGAAATACCTATTATGCTTCTATTGCAAAGGCATTGCTG
GAGATATTGCAAATCAGTTAGCTACTGATGCTGAGATACTTGGAGGCAATGGATTAAACAGAAATATCCTG
TAGAAAAACTAATGAGGGATGCCAAATCTATCAGATTATGAAGGTACTTCACAAATTCAAAGACTTATTGAG
CCCGTGAACACATTGACAAGTACAAAATTAAAAAAATTACTGTAGAAATTGAATAACTAGAACACAAGCCAC
TGTTTCAGCTCCAGAAAAAAAGGGTTAACGTTTTCCAGTGAAACAAATCCTTATATTAAATCTAA
GCAACTGCTTATTATAGTAGTTATACTTTGCTTAACCTGTTATGCTCTTAAGCAGGTTGGTTTTATTAA
AATGATGTGTTCTTCTTACTGAGAAATTCTTGAATTACATTAACCTAGAAAACATAGGTTATTGATCTC
TTAAGATTAATGTAGCAGAAATTCTTGAATTTTATTTGTAATGACAGAAAAGTGGGCTTAGAAAGTATTCA
AGATGTTACAAAATTACATTAGAAAATATTGAGTATTGAAACTGTCAACTTGACAGTAACTTGAGACT
TAATGGTATTATTAAAGTTCTTTATTGCAAGTTGGAAAGCATTGTGAAACTTCTGTTGGCACAGAAACAG
TCAAAATTGACATTCAATTCTCTTACAGCTACAAGAAACTTCTGAAAATCTTATTAATTCTGAGC
CCATATTCACTTACCTTATTAAATAATCAATAAGCTTGCCTAAATTATTATGACTGTTGGCTC
TAGGTAGCCTTGGCTATTGTACACAATCTCATTCTCATATTGCAATTGGCAAAGAAACTTAATAAAATTGT
TCAGTGCTTATTATCAT

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FIGURE 524

MAAGFGRCCRVLRSISRFHWRSQHTKANRQREPGLGFSFEFTEQQKEFQATARKFAREEIIPVAAEYDKTGEYPV
PLIRRAWELGLMNTHIENCGLGLGTFDACLISEELAYGCTGVQTAIEGNLSLGMPIIIAGNDQQKKYLGRMT
EEPLMCAYCVTEPGAGSDVAGIKTKAEKGDEYIINGQKMWITNGGKANWYFLLARSDPDPKAPANKAFTGFIVE
ADTPGIQIGRKELNMGQRCSSTRGIVFEDVKVPKENVLIGDGAGFKVAMGAFDKTRPVVAAGAVGLAQRALDEAT
KYALERKTFGKLIVEHQAISFMLAEMAMKVELARMSYQRAAEVDSGRRNTYYASIAKAFAGDIANQLATDAVQI
LGGNGFNTEYPVEKLMRDAKIYQIYEGTSQIQRLIVAREHIDKYKN

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FIGURE 525B

CGTCTTCTATTCAGGTAGCTGATTAGCCACCTAGTCCATCTGCAACTTAGTTCCACTGGCTGTGAA
CCTAACATAGTCACAGGCTCTGGGACTGTCACGTGGACATCTTGGGAGGCCGTTATTCTGCCAACGCACCC
CCGTTCATCCCTGCCCTGCCGGCACCTCGCTCACCCCAGGAAAATGTGAGCTCGTTCCCTGCTCGGCATGT
GCTCCCCCTAAGGCTCTGCTCCCTGGCCTGAAAGTTCCCTCAGCCTGAGAGGGGGCCCTCGATCTCAG
GCATGACTCAGCCCGGCTGATGCCTCTGAGTCAGGATTGGGCCGGCTCTGGGTCTGTCC
TTTCCCAGGTACTGCCTTACAAAGCTGAGTCAGGAAAGTGGCCGGTATAAAGGATGCCAAGGTCTTGACGTG
TGTAGGAGTTAGCGTGTGATATTGTTAATATAATAATTATTTTAGAGTACTGCTTGTATGTATGTT
GAACAGGATCCAGGTTTATAGCTTGTATAAAACAGAATTCAAAGTGA

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FIGURE 526

MSEASSEDLVPPLEAGAAPYREEEEAKKKKEKKKSGLANVFCVFTKGKKKGQPSSAEPEDAAGSRQGLDGP
PPTVEELKAALERGQLEAARPLLALERELAAAAAAGGVSEEELVRRQSKVEALYELLRDQVLGVLRPPEAPPER
LRQALAVVAEGEREDRQAAAAGPGTGLAATRPRWLQLWRRGVAEAAEERMGQRPAAGAEVPESVFLHLGRTMK
EDLEAVVERLKPLFPAEFGVVAAYAESYHQHFAAHLAAVAQFELCERDTYMLLVENLYPNDIINSPKLVGELQ
GMGLGSILLPPRQIRLLEATFLSSEAANVRELMRALELEARWAEDVPPQRLDGHCHSELAIIDIIQITSQAQAKA
ESITLDILGSQIKRVLLVELPAFLRSYQRAFNEFLERGKQLTNYRANVIANINNCLSFRMSMEQNWQVPQDTLSLL
LGPLGELKSHGFDTLLQNLHEDLKPLFKRFTHTRWAAPVETLENIIATVDTRLPEFSELQGCFREELMEALHLHL
VKEYIIQLSKGRVLVKTAEQQQQLAGYILANADTIQHFCTQHGSPATWLQPALPTLAEIIRLQDPSAIKIEVATY
ATCYPDFSKGLSAILAIKGNLNSEVKRIRSILDVSMGAQEPRPLFSLIKVG

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FIGURE 527

GA~~C~~TCTCCAGTCCTCAGTCACCTGGACAAAGAAGTGTGGATCCTCAGATTCCATTTCCA~~A~~CTCCAAGGTGC
CATGGCAGAGAAGGTGCTGGTAACAGGTGGGGCTGGCTACATTGGCAGCCACACGGTGCTGGAGCTGCTGGAGGC
TGGCTACTTGCCTGTGGTCATCGATAAC~~T~~CCATAATGCCTCCGTGGAGGGGCTCCCTGCCTGAGAGCCTGCG
GCGGGTCCAGGAGCTGACAGGCCGCTCTGGAGTTGAGGAGATGGACATTTGGACCAGGGAGCCCTACAGCG
TCTCTTCAAAAGTACAGCTTATGGCGGT~~C~~ATCCACTTGGGGCTCAAGGCCGTGGCAGTCGGTGCAGAA
GCCTCTGGATTATTACAGAGTTAAC~~T~~CTGACCGGGACCATCCAGCTTGTGAGATCATGAAGGCCACGGGTGAA
GAACCTGGTGT~~C~~AGCAGCTCAGCCACTGTGTACGGAA~~CCCC~~AGTACCTGCCCTTGATGAGGCCAC~~CCC~~CAC
GGGTGGTTGTACCAACCCTACGGCAAGTCCAAGTTCTCATCGAGGAAATGATCCGGAC~~T~~TG~~C~~CCAGGCAGA
CAAGACTTGGAAC~~G~~TAGTGCTGCTGC~~G~~CTATTCAAC~~CC~~CACAGGTGCCATGCCTCTGGCTGCATTGGT~~G~~AGGA
T~~CCC~~CAGGGCATA~~CC~~AA~~AC~~CTCATGCCTTATGTCTCCAGGTGGC~~G~~ATGCCGACGGGAGGCC~~T~~GAATGT
CTTGGCAATGACTATGACACAGAGGATGGCACAGGTGTCCGGATTACATCCATGTC~~G~~TGGATCTGCCAAGGG
CCACATTGCAGCCTAAGGAAGCTGAAAGAACAGTGTGGCTGCCGATCTACAACCTGGCACGGG~~C~~AGGCTA
TTCAGTGCTGCAGATGGTCCAGGCTATGGAGAAGGCCTCTGGGAAGAAGATCCCGTACAAGGTGGTGGCACGGCG
GGAAGGTGATGTGGCAGCCTGTTACGCCAAC~~CC~~CAGCCTGCCAAGAGGAGCTGGGTGGACAGCAGCCTTAGG
GCTGGACAGGATGTGAGGATCTCTGGCGTGGCAGAACAGAACATCC~~T~~CAGGTTGGCACGCAAGCC**TGA**GG
AC~~CC~~CT~~CC~~CTACCAAGGACCAGGAAAAGCAGCAGCTGCCTGCTCCAGCCTCTGGAGGA~~A~~CTCAGGGCC~~T~~GGGA
GCTGCTGGGGCAAGCCAAGGGC~~T~~CCCTACCTCAAAC~~CC~~CAGCTGGGCCG~~T~~TAGCCCACCAGGC~~A~~TGAGGC
CAAGGCTCCACTGACCAGGAGGCCGAGGTCTTA~~A~~CTTATCTTCCACAGGGTCCAAGAGTT~~C~~ATCAGGAC~~CC~~
CAAGAGTGAGTGAGGGGGCAAGGCTGGCACAAAC~~CT~~CCCTCCAGGC~~A~~CTCATTATATTGCTCTGAAAG
AGCTTCAAAGTATTAAAAAAACAAAGTTTCTTACACTGG

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FIGURE 528

MAEKVLVTGGAGYIGSHTVLELLEAGYLPVIDNFHNAFRGGGSLPESLRRVQELTGRSVEFEEMDILDQGALQR
LFKKYSFMAVIHFAGLKAVGESVQKPLDYRVNLGTIQLIEIMKAHGVKNLVFSSATVYGNPQYLPDEAHPT
GGCTNPYGKSFKFFIEEMIRDLQCADKTWNVLLRYFNPTGAHASGCIGEDPQGIPNNLMPYVSQVAIGRREALNV
FGNDYDTEDGTGVRDYIHVVDLAKGHIAALRKLKEQCGCRIYNLGTGTGYSVLQMVOAMEKASGKKIPYKVVAR
EGDVAACYANPSLAQEELGWTAALGLDRMCEDLWRWQKQNPSGFGTQA

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FIGURE 529

CGAGCCCCGCCAACCGAGGCCACCCGGAGCCGTGCCAGTCCACGCCGGCGTGCCTGGCCTTAAGAACCA
GGCACCTCTGCCCTCTCCACTCGGAGTCGCCTCGCGCCCTCACTGCAGCCCCTGCGTCGCCG
GGACCCCTCGCGCGACCAGCGAACATCGCTCTGCAGCAGAGCAACATGCCCACACTCGGATGCGATGAGAC
CCTGGCTAGAGATGCAGATTAAATTCAAACCAAATCCCAGGGCTCATCTGGATTAATAAGAGGAGATGATCTCC
AGATCCCACGGAAAGCATGCTGCCAACGATGGCTGGGACATCAACAAGGATGCCTTTGTTCCGGAGCTGGCCA
TTCACACAGGCCGATACAAAGCAGGGAAAAGGAGCCAGATCCCAAGACGTGGAAGGCCAACCTTCGCTGTGCCA
TGAACCTCCCTGCCAGATATCGAGGAGGTGAAAGACCAAGGGCAGCTCAGCTGTGCGAGTGTACC
GGATGCTTCCACCTCTACCAAGAACCAAGAGAAAAGAAAAGTCGAAGTCCAGCCGAGATGCTAACAGAGCAAGG
CCAAGAGGAAGTCATGTGGGATTCCAGCCCTGATACCTCTGTGATGGACTCAGCAGCTCCACTTCGCTGATG
ACCACAGCAGCTACACAGTCCAGGCTACATGCAGGACTTGGAGGTGGAGCAGGCCCTGACTCCAGCACTGTCG
CATGTGCTGTCAAGCAGCACTCTCCCCGACTGGCACATCCCAGTGGAAAGTTGTGCCGGACAGCACCAGTGT
ACAACCTCCAGGTGTCACCCATGCCCTCCACCTCTGAAGCTACAACAGATGAGGATGAGGAAGGGAAATTACCTG
AGGACATCATGAAGCTTGGAGCAGTCGGAGTGGCAGCCAACAAACGTGGATGGAGGGTACCTACTCAATG
AACCTGGAGTCCAGCCCACCTCTGTCTATGGAGACTTTAGTGTAAAGGAGGAGCCAGAAATTGACAGCCCAGGG
GGGATATTGGGCTGAGTCTACAGCGTGTCTCACAGATCTGAAGAACATGGATGCCACCTGGCTGGACAGCCTG
TGACCCAGTCCGGTTGCCCTCCATCCAGGCCATTCCCTGTGCACCGTAGCAGGCCCTGGCCCTCTTATT
CTCTAGGCAAGCAGGACCTGGCATCATGGTGGATATGGTGAGAGACTGGACTTGTGGACTCTGTGGCCCTCAACAGC
CAAGTGTGACCCACTGCCAAGTGGGATGGGCCCTCCCTCTGGTGCATTGACCTCTCAGGGCTGGCAGGCC
GTGTCTGGTTTTCTTGTGGTAAAGCTGCCCTGCCCTGGGAAGATGAGGTTCTGAGACCAGTGTATCAG
GTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTCTGTGAGGCCAGCTGCTGGAGAGGGTCTCGCTGTCA
CTGGCTGGCTCCTAGGGGAACAGACCAAGTGAACCTCCAGGGCTGGCTCTGGTGCATTGACCTCTCAGGGCTGGCAGGCC
AGCAGAAATTGCACTAAATGAATCTGTTCAAAGAAACTACCCCTTTCAGCTGAGCCCTGGGACTGTTCCAAA
GCCAGTGAATGTGAAGGAAACTCCCCCTTCAGGGCAATGCTCCCTCAGCCTCAGAGGAGCTTACCCCTGCTCC
CTGCTTGGCTGAGGGGCTTGGAAAAAAACTTGGCACTTTTCGTGTTGATCTGCCACATTCTGATCAGAGG
TGTACACTAACATTCCCCGAGCTTGGCCTTGCATTATACAGTGCCTGCTGGGCCACCACCC
CCTCAAGCCCCAGCAGCCCTAACAGGCCAGGGAGGGAAAGTGTGAGCGCCITGGTATGACTAAAATTGGAAAT
GTCATCTAACCATTAAGTCATGTGAACACATAAGGACGTGTAAATATGTACATTGTCTTTATAAAAAG
TAAAATTGTT

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FIGURE 530

MPITRMRMRPWLEMQINSNQIPGLIWINKEEMIFQIPWKHAAKHGWDINKDACLFRSWAIHTGRYKAGEKEPDPK
TWKANFRCAMNSLPDIEEVKDQSRNKSSAVRVYRMLPPLTKNQRKERKSRSRDAKSRAKSKCGDSSPDTFSD
GLSSSTLPDDHSSYTVPGYMQDLEVEQALTPALSPCAVSSTLPDWHPVEVVPDSTSDFLYNFQVSPMPSTSEATT
DEDEEGKLPEDIMKLLEQSEWQPTNVDGKGYLLNEPGVQPTSVYGDFSCKEEPEIDSPGGDIGLSLQRVFTDLKN
MDATWLDSLLTPVRLPSIQAIPCAP

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FIGURE 531A

CTGGGCCAGGCGCCGGGGCAGGAAGGGAGGCAGGCCATTCTAAAGGCGCCAGTGTAGGCACAG
 GCCGCTGACGGCGGGAGGAAAATGAGTGAGTCTTGGTTGTGATGTTGCCAGATTTAGTGGAAAAGCT
 GAGAAAGTTCGTTTCGAAAGAACAGAACACTGCTATTATAATGAAGATTGACAAGGATAAACGCTGGT
 GGTACTGGATGAGGGCTTGAGGAGCTTCAACCAGATGAACCTAAAGATGAACACTACCTGAACGACAACCTCGCTT
 CATTGTGTATAGTTATAAATCAACATGATGATGGAAGAGTTCATATCCTCTGTGCTTATTTCTCCAGTCC
 TGTTGGATGTAAGCCTGAACACAGATGATGATGCTGGAAGTAAGAATAAGCTAGTCCAGACAGCTGAACACTAAC
 CAAGGTATTGAAATAAGAAATACCGAAGACCTAAGTGAAGAATGGTACGTGAGAAACTTGGATTTTCTA
ATGTAACCTCTGTGTTCTAAAGTATTATGATTAACCTGACCATACTGGAATCAGACATAAAACTTATTAA
 TGCCTAAAAATGCACTGTTACTTACAGTTGTTCTGCAGTAAGAAAATTCTCATTTGTGCAAATTTGAA
 CAAAGAGGAAATCATCTCATAGTAATGAAACTTGTAAAGTGTCTTATATTGTAATTGTTAGGTGGACTA
 CTTTCTCCAGGGACTTTGCACTCTGTGACTAATTCTATAACTTATGGTCCGAATTGTTACTATTAC
 GACACCATTGAAAGTGGATATATTAGATTGTGAGAGACAAACAGTGCCTCCTTGACAAATACTGGATATTAG
 CAGTTATTGAAATAGCGTATTATCAGTGTCAAATCATTGAAATTCAATTGGGTCAAAGACTTGAGTGA
 CCCAGTATTGAGCCATGAATAATTAGTGTAACTGTATTACAAGTACATTGATGAAATTGTATCTCTTGGT
 TTCTGTATCTTTAATCAAGTCTAGAAACTATGTTCATCAGTCACTCATTAAAGGTGGAGTTAGATT
 ATGATAGAATTATGACTGTTAGCTTCTCTTATAGCATCTTAGTCTAGAAATTGGTGGTTGTAATAATCAA
 GGGCTTCATTCTTATGTCATTCTAGACAGTTGAAACTAGGTAAATAACACTTTATTAAAGCACCTC
 AATGTCCTGTGAACACTAATTATTAAATGTGTTAAACTGTGCCTTGATTGTTAGCTTAAAGTTAGTTA
 AGACTTTACACTGCCAGTATTCCACATTGGTGAATTAAACTTTAAAGGGCCAATAAAATAATTTC
 TAATGTGTATATCTGAAATTGTAATAAAATCAACTTCATATTAAATTCCAACATCTGCTGCATTGGT
 TAATATATGGCAGTCGAGATTATAATTGGGTAACTTGTGGTAGTTGCCCCATAGGAAATTATCTT
 AAAACTTGGCCATAGTTAAATAACATTAAACACTTCAATAGCAATCACATTATCCTAAATGTCAGAAGATAT
 TCTGAACCTGGATGCCATAGTTAAACTAAACAGTCTGGTAGATGGTACTCTGGCATAAAGCGTAGGA
 TTCTGATATTGGCATACTTGTAAAAACAAACATAAGTAACTGATGAACTTAAAGTAAATAGGTCTAGAG
 ACTCTAAAACAACTGGTAGTGTATTCTTATTTAAAGAATATCTAGTCATCTAAAACACTAGCAAAA
 TTAAATTGGCATTTCCATTATGTTCTTGCAATTAAAGGTTCTGTGAGAAGTAAAGATA
 GTTGGAAATTGGCATATTGAATAGAACATCTCTGTTCCAACACTGTTGGCTCACTAAATTAGAAGTCAG
 GAAGCAATAGAAAGTGGAGATGAGGAAGTGTAGAGTAGGTGTTGGTCTTGGAGGGAAAGATTCTT
 TATTCCAATTCCAGAGAGAGAAACTCACCCAGGAAGTTAAAATTCTTAAACAGGTATTGATATTG
 GAGAATAACATGCATATAATTCTGAGGAATGCACATGTAATCCAAGTGAGTGGAGAGTGTGTTAATGTTTG
 AATGAAGGAAATGAGGTTTGTCTTACCTGTTGAGCAGTAAGAGAAACTAGTGCTGCAAGAATGTATT
 AATGAAGTCTTATTGTCTTGCAATTGTTAGTTGCTTATTAAATTGGAGGTCTCCATAATGTCAG
 ATAATATTGACCTGCCATACGTTAGCCTTACTGTCTTAAACAGGAGCAAAGAGCTGTGATAAAA
 CCATGCTTTTGAGCTGCTGACTCTTAATTAAACATGTTGGCAAGACAACAGATTGAGGTAGAGGA
 TCAGTAGGACATTTATTCCATCTGCTCTATGGGAAATTACAAATCCGTGCTCTAAATGTTCTCAAACAT
 TTATATAGATTCCCTTCATCTTACTAAATTGCAATTGTTCTTCAAGTATGTTGTTACTGTCTTT
 TTTCTGCCATTCCAAATAAAACTCCAGATTCTCATATTCCAGTTTACATTCCGTTATCTTCTGGTACAA
 CCATTCCCATTCCAGCTTAAATCTGAGCTTGTAGCAGCAACTTTTCTGGATCTCTCTGGTCTTC
 TAAGTCAGTGTAGTTGAAATTGGCCCTGCATAAGTCTGCATAGCATCTAATGTCAAAATAGAACCAAC
 TGGTAATCAGTATTATGAGTGTGGTTCCATGACAACAAAATACATGAGAAAACCTCTCAGGTTACTA
 TGCTGAAATTCCAAAATGTCAGTTGAAATGAGTCACTTGTCTGGTATTGACGCAATTATATTAGGAAA
 AAAGTTGGTTGACTGTTTGTAAATTGACTCTAAAATGTCAGTTCTAAAGTTACTAAAGTTACTAAATG
 CCTAGTGCAGTTAACACATACTCTGTTAAGTGTGTTGCTAAATTAAACTGTCTTAAATCTGTG
 TGGCAAATGTGTGTCAGCACTTCCCTCTTATCTCTTACAGGAGTCAAATGTAGCCATAAAACTG
 TATCCTGTCTGACACTTACTGTTAAACATTCCAGTTAGGGAGTTATTGCCAAATTAAATTGGCTTCCCC
 CCAACCCATATAGATATTAGGAAGGTGTACTTAAACATTGAGCTGCTTAAACCTGAGCAATGTCATT
 AATCCATATGTGGACTAGTGTGAAATAGATATTTCATAAGAGTTAAATGACTGATATTGGTGGAAAGTAGAGA
 GTAACCAATTCTATCAAGTATTCTACTATGGTGCCTTCCCTATTGTTCAATAGACTGATAATA

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FIGURE 531B

CTGGTATTTAGAGTTGAGCCATTACAACCTTGTGAGGATGTGTTCAAACATTCTGGACAAATCTTATT
TGTATTTCTGGAAGAACATGTAATCTTAGACCGCTAAAACCAATGCTCCCAAGCTGAATATTCTGAGCAA
ATTTGTTTTTATTATGCCATTGACATTCAAATCAGTGCTCATACAGTAAACTGTGATAGAAATTGTATT
TTATTGCTTTGGATTATAATTCAATAAAATATAATTACTTGAATATTGTTGAGATCATTAACATGCCAGGGC
AGTTCCCAGTGTAGATGGCCAAGATAATCTCATTCAAGGAGGCTGAAACATTAATGGTTAGTCTGTGAA
TTTAACAGTTCTGTCACTGTTAACAAAACCAACACTGACACAACACTCCTAACGCTGTGGTTCAAGTCTG
CTAGTTCATATTGCATGTTATTTGGACAGTCTTGTAAAGCATGGTGTACTGGTTAAATAATGTT
AACATT

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FIGURE 532

MSESLVVCDVAEDLVEKLRKFRKRKETNNAAIIMKIDKDKRLVVLDEELEGISPDELKDELPERQPRFIVYSYKY
QHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNKLVQTAELKVFEIRNTEDLTEEWLREKLGFH

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FIGURE 533

AGGAAGCCGACTAGGCGAATTCACTTACTGACCGGCCTGGGCTGCTTGAGACATGGAGGAAGCCAGTGAAGGTG
GAGGAAATGATCGTGTGCGAACCTGCAAAGTGAGGTGGAGGGAGTTAAGAATATTATGACCCAGAATGTGGAGC
GGATCCTGGCCGGGGAAAACCTGGAACATCTCGCAACAAGACAGAGGATCTGGAAGGCCACATCTGAGCACT
TCAAGACGGACATCGCAGAAGGTGGCTGGAAATTCTGGTGGAAAGAACGTGAAGATGATTGTCCCTATCTCGTGA
TTGTTTTATCATCATCCTCTTCATTGTGCTTTGCCACTGGTGCCTCTCTTAAGTAAACAGGGAACCTCTCCC
ACCTGCCCTCTTCAGGGACAACCCCTCCATAAAATGTGTGCCAAGAGGGTCTCCTTCTGTCTCCCTACAG
AGAATGCTGCTCGGTCTCCTACCCCTTCCCAGGGCCCTGCTGCCACGTTGTATGCCCAAGGTACCTGG
TCCCCCGGAAGGAGAGAAAAAAGAGAGATGGACTGTGGCTGCATTCTGGTCCTAGAGTGGCTGGAGAGAC
CTAGAGGGCCCAGCATGTGGCTGGAAACTGTTGGTGGCCAGTGGTAATAAGACCTTCAGTATCCCTAAAAA
AAAAAAAAAAAAAAAAAAAAAA

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FIGURE 534

MEEASEGGGNDRVNLQSEVEGVKNIMTQNVERIILARGENLEHLRNKTEDLEATSEHFKTTSQKVARKFWWKNVK
MIVLICVIVFIIILFIVLFATGAFS

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FIGURE 535A

GGCCC CGG CT GCG AGG AGG AGG CGG CG CG CAGG AGG **ATG** TACT GGT GGC GGGG ACAGGGG TT GGC CGGC
 TCGGGCACCTCCTGGCTCGCTGCTGGGGCTGCTGCTGCTGGCGCTCCGGCACCCGGCGCTGGTCTGC
 CTGCCCTGTGACGAGTCCAAGTGCAGGGAGCCAGGAAGTGCAGGAGAGCTGCGCGGCACCTCCTGGATTACGGAACTGCGACCAGGGGG
 TGCTACACGTGCGCCAGCCAGAGGAACGGAGAGCTGCGCGGCACCTCCTGGATTACGGAACTGCGACCAGGGGG
 CTGCGTTGTGTCATCCGCCCCCGCTCAATGGCAGCTCCCTCACCAGACTACGAAGCGGGCTTGCAGAGATGAG
 AACTGGACTGATGACCAACTGCTTGGTTAAACCATGCAATGAAACCTTATTGCTGGCTGCAATATAATCAAT
 GGGAAATGTGAATGTAACACCAATTGCAACCTGCAAGCAATCCCTTGAGTTCAAGTCAGGATATGTGCCCTTCA
 GCTTAAAGAGAATTGAAGAAGAGAACCCAGATTGCTCAAGGCCGCTGTGAAGTCCAGTCTCTCACGTTG
 CCTGAAGATTCTGTTGATCGAGGGTATGCTCCTCCTGGGGAGTGTGTCCTTACCCAGCCGCTGCGTGTGC
 AACCCCGCAGGCTGTCGCAAAAGTCTGCCAGCCGGAAACCTGAACATACTAGTGTCAAAAGCCTCAGGGAAAG
 CGGGAGAGTGCTGTGACCTATGAGTGCAAACCCAGTTTGGCTGGACTGCAGGACTGTGGAATGCCCTCCT
 GTTCAGCAGACCGCGTGTCCCCCGGACAGCTATGAAACTCAAGTCAGACTAATGCAAGTGTGACTGTCAGATGGTTGCTGTACTTTG
 CCAACAAGATGCGAGTGTCTCTGGCTTATGTGGTTCCCGTGTGAGGTGGGATCCACTCCCCGATAGTC
 TCTCGGGCGATGGACACCTGGAAAGTGCTGTGATGTCTTGAATGTGTTAATGATAACAAAGCCAGCCTGCGTA
 TTTAACAAATGTGGAATTATTGATGGAGACATGTTGCAATGGACAACCTGTCGGTCTGTCATGCCAAGGGGGC
 GTTGCATCTGCTTCACTGCCAGTGTGGTGAGATAAACTGCGAGAGGTACTACGTGCCGAAGGAGAGTGCTGC
 CCAGTGTGTGAAGATCCAGTGTATCCTTAATAATCCCGTGGCTGCTATGCCAATGGCCTGATCCTGCCAC
 GGAGACCGGGTGGCGGGAAAGACGACTGCAACATTGTCAGTGCACCGTGAACGCCACTGCGTTGCGACCGTC
 TCGGGACAGACCTGCAACAAACCTGTGAAAGTGCCTGGGGAGTGTGCCCCTGTGCGAAGAACCAACCATCATC
 ACAGTTGATCCACCTGCATGTGGGGAGTTATCAAACCTGCACTCTGACAGGGAAAGACTGCATTAATGGTTCAA
 CGCGATACAATGGTTGTCGACCTGTCAGTGCAATAACACCGAGGAACATGTTGAGAACCTGCAAGTAAACAAGGCTGC
 ACCTTGAACCTGCTCTGGTTCTACTGATGCCAAAATGTGAGATCTGTGAGTGCCTGCCAAGGCCAAG
 AAGTGCAGACCCATAATCTGTGACAAGTATTGTCACCTGGATTGCTGAAGAATAAGCACGGCTGTGACATCTGT
 CGCTGTAAGAAATGTCCAGAGCTCTCATGCAAGATCTGCCCTGGTTCCAGCAGGACAGTCACGGCTGT
 CTTATCTGCAAGTGCAGAGAGGCCCTGCTCTCAGTGGCCACCCATCTGTCGGGACTTGTCTCACCGTGGAT
 GGTGATCATCATAAAATGAGGAGAGCTGGCACGATGGGTGCCGGAAATGCTACTGTCTCAATGGACGGAAATG
 TGTGCCCTGATCACCTGCCCGGTGCCCTGCTGGCAACCCACATTGACCTGGACAGTGTGCCCATCATGT
 GCAGATGACTTGTGGTGAGAAGCCAGAGCTCAGTACTGCCCTGCTGGGTTCCAGCAGGACAGTCACGGCTGT
 GTGGAAAGGAGAAACGTGGAACATTGACTCCTGTACTCAGTGCACCTGCCACAGGGACGGTGCTGTGAGACA
 GAGGTGTGCCACCGCTGCTGCCAGAACCCCTCACGCACCCAGGATTCTGCTGCCACAGTGTACAGATCAA
 CCTTTGCCCTCCTGTCCCGCAATAACAGCGTACCTAAATTACTGCAAAATGATGAAGGGGATATATTCTG
 GCAGCTGAGTCTGGAAGCCTGACGTTGTACAGCTGCACTGATTGATAGCGTAATTAGCTGTTCTGAG
 TCCTGCCCTCTGATCCTGTGAAAGACCTGTCTGAGAAAAGGCCAGTGTGTCCTACTGCAATAGAACACA
 ATTCAAAGAAGGTGGTGTGCCACTTCAGTGGGAAGGCCTATGCCAGGGAGCGGTGGACCTTGACAGCTGC
 ACCCACTGCTACTGCCCTGCAAGGCCAGACCCCTGCTGACCGTCAGTGCCTGCCCTCTGCCCTGTGAGGCC
 ATCAACGTGGAAGGAAGTGTGCTGCCAATGTGTCAGAAATGATGTCCTGAGAACCAACCAATATACCAATTGAG
 AAGACAAACCATCGAGGAGAGGTTGACCTGGAGGTTCCCTGTCAGGCTAGTGAAATGATATCGTCCAT
 CTCCCTAGAGATATGGGTCACTCCAGGTAGATTACAGAGATAACAGGCTGCACCCAAGTGAAGATTCTTCACTG
 GACTCCATTGCCCTAGTTGTGGTCCATAATTATGCTCTCTATTATAATAGCATTCTTATTGATCAATCAG
 AAGAAACAGTGGATACCAACTGCTTGTGGTATGCAACACCAACTAACGCTTCTCCTAAATAATCAGCTAGTA
 TCTGTGGACTGCAAGAAAGAACCGAGGTCCAGGTGGACAGTCCAGAGAATGCTAAGAATTGCAAGAACAGAT
 GCAAGATTGAGTGGCTTCTACAGCATGCAAAACAGAACCATCTACAGGAGACAATTCTACCAAACAGTGTGA

 AGAAAGGCAACTAGGATGAGGTTCAAAAGACGGAAGAGCAGACTAAATGCTCTAAAAGTAAACTAGAATTG
 GCACTTGCTTAGTGGATTGTATTGGATTGTGACTGTGATGTACAGCGCTAACAGACCTTACTGGGATGGGCTCTGCT
 ACAGCAATGTGCAAGAACAGCATTCCACTTTCTCAAGATAACTGACCAAGTGTGTTCTAGAACCAAAGTT
 TTAAAGTTGCTAAGATATTTGCTGTAAGATAGCTGTAGAGATATTGGGGTGGGGACAGTGTGAGTTGGATGG
 GGAAATGGGTGGAGGGTGGTGGAGAAAAATTGGTCAGCTGGCTGGGAGAACCTGGTAACATAAAA
 GCAGTTGAGTGGCCACAGGGTTATTTTCTATTGCTGTAAGACTGCACTGGTGTGCAAGACTCAGGCC

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FIGURE 535B

GAATGAGCAGGAAACAAAAAGGCCTTGCACCCAGCTGCCATAACCACCTAGAACTACCAGACGAGCACATCA
GAACCCTTGACAGCCATCCCAGGTCTAACGCCACAAGTTCTTCTATACAGTCACAACGTGCAGTAGGCAGTG
AGGAAGCCAGAGAAATGCGATAGCGGCATTCTCAAAGCGGGTTATTAAAGGATATATACAGTTACACTTTGC
TGCTTTATTTCTCCAAGCCAATCAATCAGCCAGTTCTAGCAGACTCAGCACATGAACAAGATCTAAGTCAT
TTCTTGATGTGAGCACTGGAGCTTTTTTACAACGTGACAGGAAGAGGAGGGAGAGGGTACGAACACCCA
GGCATTCCAGGGCTATAATTCACTGTTGTTGCTTGTATATTGTTGGTTGTCAGTAGTTGTTGTTG
TTGAAGCTCTAGCTTAAGAAGAAAATTAAAAAGACTGTTGGGGATTCTTTCTTATTATATACTGAT
TCTACAAAATAGAAACTACTCATTTAATTGTATATTCAAGCACCTTGTGAAGCTAAAAAAATGATG
CCTCTTAAACTTAGCAATTAGGAGTATTTGTAACACTATCTTATGCTAAAAAACAAAAGTATTGTG
CATGTGTATATAATATATATACATATATACACATACAATTATGTTCTGTTGAAATGTATT
TATGAGATTTAACCGAGAACAAAGGCAGATAAACAGGCATTCCATAGCAGTGCTTGTACTACAAATT
TGAATAACACAAAATCTACCTACCTGAGTTAATTGAAAGATGTGTGAGAGTATGTATGTGTG
TGTGTGTGTGTGCGCGCAGCACGCACGCCTTGAGCAGTCAGCATTGCACCTGCTATGGAGAAGGGTATT
TTATTAAAATCTCCTCATTGGATTGCTTCAAGTGGTTCAATTGCTCACTGCCAGAGACATTGATGG
AGTTCTATCTGCATCACTAACAGCTCTGGATTTTTTTTCAAAACATGGTTGAAACAACTAC
TGGAAATTGTCACAATAAGCTGGAAGTTGTTGAGTATGCCTCAAATATAACTGACTGTACTATAGTGG
AACTTTCAAACAGCCCTAGCACTTATACATAATTAAACCCATTGTCATTGAGTTCTTTAAAATGCTT
GTTGTGAAAGACACAGATACCCAGTATGCTTAACGTGAAAAGAAAATGTGTTGTTGAAAGGAACCTCAA
GTATTGTTGAAATACTGGACAGAGGTGCTGAACCTTAAAAAAATTAATTATTATAATGACCTAATT
ATTAATCTGAAGATTAACCATTGGTCTTAGAATATCAAAAAGAAAAGGGTGTCTAGCTGTTG
ATCAAAGGAAAAAAAGATTATTATCAAGGGCAATATTGTTATCTTCAAATTTGTTAATGATA
TACAAAATAGATTGACATCAGCCTGATTAGTAAATTGTTGTAATTAACTCATTCTGGCATAAAAGTC
TTTATCAAAAAAAATTGAGATGCTTGTGTTGTTCAATCATGCCATTGAAATACAGGAT
ATAGGACAAGGTGAAATTGTTATTATTTAAAGATATGATTATCCTGAGTGCTGTATCTATTACTCTT
TTACTTGGTTCTGTTGCTTGTAAAAGAAAATATAATTCTGAAAGAATAAAATAGATATGGCACTT
GGAGTGCACTAGTTCTACAGTTGTTGTTCTCAAAAAGCTGTAAGAGAATTATCTGCAACTTGATT
CTTGGCAGGAAATAAACATTGAGITGAAATCAAAAAAAAAAAAAAA

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FIGURE 536

MYLVAGDRGLAGCGHLLVSLGLLLLLLARSGTRALVCLPCDESKCEEPRNCPGSIVQGVGCCYTCASQRNESCG
GTFGIYGTCDRGLRCVIRPPLNGDSLTEYEAGVCEDENWTDDQLLGFKPCNENLIAGCNIINGKCECNIRTCSN
PFEFPSQDMCLSALKRIEEKPDCSKARCEVFSPRCPEDSVLIEGYAPPGECCPLPSRCVCNPAGCLRKVCPG
NLNILVSKASGKPGECDCDLYECKPVFGVDCRTVECPPVQQTACPPDSYETQVRLTADGCCTLPTRCELSGLCGF
PVCEVGSTPRIVSRGDGTPGKCCDVFCVNDTKPACVFNNVEYYDGDMFRMDNCRFCRCQGGVAICFTAQCGEIN
CERYYVPEGECCPVCEDPVYPFNNPAGCYANGLILAHGDRWREDDCTFCQCVNGERHCVATVCGQTCTNPVKVPG
ECCPVCEEPTIITVDPPACGELSNTLTGKDCINGFKRDHNGCRTQCQCIINTEELCSERKQGCTLNCPEGFLTDQ
NCEICECRPRPKKCRPIICDKYCPPLGLKNKHGCDICRCKKCPELSCKICPLGFQQDSSHGCLICKCREASASAG
PPILSGTCLTVGDGHHHKNEESWHDGCRECYCLNGREMICALITCPVPACGNPTIHPGQCCPSCADDVVQKPELST
PSICHAPGGEYFVEGETWNIDSCTQCTCHSGRVLCETEVCPPLLQNPSRTQDSCCPQCTDQPFRPSLSRNNSVP
NYCKNDEGIDIFLAESWKPDVCTSCICIDSVISCFSESCPSVSCERPVLRKQGCCPYCIEDTIPKKVVCHFSGKA
YADEERWDLDSCTHYCLQGQTLCTVSCPPLCVPINVEGSCCPMCPEMYVPEPTNIPIEKTNHRGEVDLEVP
LWPTPSENDIVHLPRDMGHLQVDYRDNRLLHPSEDSSLDSTIASVVVPIIICLSIIIAFLFINQKKQWIPLLCWYRT
PTKSSLNNQLVSVDCKKGTRVQVDSSQRMLRIAEPDARFSGFYSMQKQNHLQADNFYQTV

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FIGURE 537

CTCGGAAGCCGTACCA**ATGTCGTGCGAGTCGTATGGTCTCGGGTACTGGATATTGTGGCTGGCGCACG**
CCATCCGCCTGCTCTGGAGTTACGGATAACCTCTTATGAGGGAGAACGGTACACGTGCGGGGAAGCTCCTGACT
ATGATCGAAGCCAATGGCTGGATGTGAAATTCAAGCTAGACCTGGACTTCCTAATCTGCCCTACCTCTGGATG
GGAAGAACAGATCACCCAGAGCAATGCCATCTTGCCTACATCGCTCGCAAGCACAACATGTGTGGTGAGACTG
AAGAAGAAAAGATTGAGTGGACATCATAGAGAACCAAGTAATGGATTCCGCACACAACCTGATAAGGCTCTGTT
ACAGCTCTGACCACGAAAAACTGAAGCTCTCAGTACTTGGAAAGAGCTACCTGGACAACTGAAACAATTCTCCATGT
TTCTGTGGAAATTCTCATGGTTGCCGGGAAAGCTCACCTTGTGGATTTCTCACCTATGATATCTTGGATC
AGAACCGTATATTGACCCCAAGTGCCTGGATGAGTTCCAAACCTGAAGGCTTCATGTGCCGTTTGAGGCTT
TGGAGAAAATCGCTGCCTACTTACAGTCTGATCAGTTCTGCAAGATGCCATCAACAACAGATGCCAGTGGG
GCAACAAGCCTGTATGC**TGAG**CAGGAGGCAGACTTGCAGAGCTTGTGTTCATCCTGTCCGTAAGGGTCAG
CGCTCTTGTCTTGCTCTTCAATGAATAGCACTTATGTTACTGGTGTCCAGCTGAGTTCTCTGGTATAAAG
GCTAAAAGGGAAAAGGATATGTGGAGAATCATCAAGATATGAATTGAATCGCTGCGATACTGTGGCATTTCCCT
ACTCCCCAATGAGTTCAAGGGCTGTAGGTTCATGCCAAGCCCTGAGAGTGGTACTAGAAAAACGAGATTGC
ACAGTTGGAGAGAGCAGGTGTAAATGGACTGGAGTCCCTGTGAAGACTGGTGAGGATAACACAAGTAAAAC
TGTGGTACTGATGGACTTAACCGGAGTCGGAAACCGCTCTGTACACATGGAGTTAGTGTGATAAAGGCAG
TATTCAGACTGGTGGCTAGCCAATAGAGTTGCAATTGCTTATTGAAACTCATAAAAATAATAGAGCCCCAC
TTGACACTATTCACTAAAATTAAATCTGGAATTAAAGGCCAACATTAAACACAAAGCTGTATTGAT

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FIGURE 538

MSCESSMVLGYWDIRGLAHAIRLLEFTDTSYEEKRYTCGEAPDYDRSQWLDVKFKLDLDFPNLPYLLDGKNKIT
QSNAILRYIARKHNMCGETEEKIRVDIIENQVMDFRSQLIRLCYSSDHEKLKPQYLEELPGQLKQFSMFLWKFS
WFAGEKLTFLVDFLTYDILDQNRIFDPKCLDEFPNLKAFMCRFEALEKIAAYLQSDQFCKMPINNKMAQWGNGNKPVC

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FIGURE 539

CGGCTGCTGCCACTGCTGTGCTGGGGCCGGTCGCCAGGC~~AAAAGCCCTCACGTTGAGGGAGTCATG~~
AGCCGTTCTGAATGTGTTAAGAACGTTGGCTGGTATGGTGTCCATCATAGCCATGGGAACACGCTGCAGAGC
TTCCGAGACCACACTTTCTATGAAAAGCTCTACACTGGCAAGCCAACCTGTGAATGCCCTCAAGCTCGG
ACCTTGGAATCTGGACGCTGCTCATCAGTGAATCGCTGCCCTGTGCCATTGACATTACAACAAGACGCTC
TATCACATCACACTCTGGACCTCCTCCTGCCCTGGGCAATTCTCTCTGAGTTGTTGTATGAAACTGCA
GCTCCCACGATTGGCGTCTGGCACCCCTGATGGTGGCAAGTTCTCCATCCTGGGTATGCTGGTGGGCTCCGG
TATCTAGAAGTAGAACCAAGTATCCAGACAGAACAGAGAAACTGAGGCCAGCATTATCACCTCCAGGACTTCTC
GTTTCCACCTGGCCATCTCTCCTCGTCCTCCTCTTAATTCTTCTATTCCATCATCTGCCCTT
TTATTCACTTTAGCCTTTTTAATTAAAGATATGCATACTGAAAAGTATATAACATGTACG
TACAATTAAAGAATAATTAAAGTGAATACTACGTAACCTCCATCCAAGTCAAGAAATTGCCAGCTCTCGGAA
GCCCACTGTGTCCTCCCTACCTGCAACCTCTCCAGGCTCCCTTCCAGCCTCCCTTTCCCTTTA
TTTCATGCCTTGATTGACTTGTGTGGAACATGTGAACATGAAACTTAAACCTGCTGCCACCCAGAGC
AGCTGTGACCAAGGGCTGCCTCAAGGGGTGTCCACGCAGGTTGGCCTCTGCTGCTGGACCCAAGACTCT
GAACCTTCCAAGGGACAGGCAGTTCTTAAGAACGGCTCCCTGTGTGAGCAAGACACAGCTCTCTCTA
TCTACAGATGCATGAGGGTTGGAAGAGTCTGGCTGTTAGACCTCTGGTCAGCTGTATTGTGTAACA
TTTGTAAATAATAGAAAAACCTCTGCTCTGATCAGTTCTGTACTTGACCTCTGCTAAGACAAGAGCATGGCT
GCCTCCTCTGAGCCCTAGGAGAACATCACAGCTTATGCCTGATTGAATACACCATACTGAGTAGGACAGCTCATGA
CACAGGTCAAGCCTGGCTGCCCTCGGCTCTACTGTCATTGCTATTCTTGTATTCTGAAGTC
CTTTTTCTCACCTCAAGAGTCTGCTTCACAACACTAAACACTAAGTGCCTTCTTATTCTCCTAAAGAAGA
AACAGATTCTGAGAGAGCAGAGAACAAAAAATAGAACTAGGCAAGACATGAAACTGCATGACATGGAA
GAAGACAACAAACCCCCGAGGAGAACACTGCACTGGAATGGACAGTTGCTCTAACCTACCCAGAGGGCTCCCC
AGCTGGACCCCTACACAGTGTGTATCCAAAAGGCCATTGCTATTGCAAAATATTGTTGAGTACTCTC
CATGCCGGACACTGGGAAAGAGAACATGAACGACACAGGCAATGCCCTGCCCTGTGGCCTTATATTAGTCA
AGGTAACAGAACATCAACAAGCCAACACAAAAATAAGAACCTCAAATAGGGATAAGAACACTCTAACAAACACAAGGT
ATTTGGTCAAGAACGGATGTGGGTGGCAGTGGGAACGTAACCTAAATTAGATCATCAGAAAGTC
AGGAGATGGATTTTTTTGTTAGAGACGGGTTCACTCTGTCACCCAGGCTGGAAATTGCAGTGGCAC
AATCCCTCACTGCTGCCCTCAACTCTGGCTCAAGTGAACCTCCTGCATCAGCTCCCAAGTAGCTGGACTGC
AAAGTGTGTACCAACCACATCCAGCTAACATTGGGGTGGGAAGAGATGGGCTTACTATGTTGTCAGGCTA
AGAGGTGGGATTGAGCTGAGACTGATGCCAGGAGTTAAAGATATGGAGCAGGCCGTAGAAAG
GAGGGAGCAGCAACTGGAAGGTAGAATAGTCTTATTCAAGGAATAAGAACATGTAATCACAGCATGGTGAAGAG
TTAGGAAGTGAAAAAAAAAAAAAA

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FIGURE 540

MSRFLNVLRSWLVMVSIIAMGNTLQSFRDHTFLYEKLYTGKPNLVNGLQARTFGIWTLLSSVIRCLCAIDIHNKT
LYHITLWTFLLALGHFLSELFVYGTAAPTIGVLAPLMVASFSILGMLVGLRYLEVEPVSRRQKKRN

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FIGURE 541

AGTACATCGACCCGAGACCAAGAACATCCCGTACCGCGAGCACAAGAGCCTGACGGGCACGGCGCGCTACA
TGAGCATCAACACGCACCTGGGCAAGGAGCAGAGCCGCCGAGCACCTGGAGGCCTGGGCCACATGTTCATGT
ACTTCCTGCGCGGCAGCCTCCCCTGGCAGGGGCTCAAGGCCGACACGCTCAAGGAGCGGTACCAGAAGATCGGGG
ACACCAAACGCGCCACGCCATCGAGGTGCTCTGCAGAGAACTTCCCAGAGGAGATGCCACGTACCTGCGCTATG
TGCGGCGCCTGGACTTCTCGAGAAGCCCAGTACTACCTGCGGAAGCTCTCACCGACCTCTCGACCGCA
GTGGCTTCGTGTTGACTATGAGTACGACTGGGCCGGAAAGCCCCTGCCGACCCCATCGGCACCGTACACCG
ACCTGCCCTCCCAGCCTCAGCTCCGGGACAAAACCCAGCCCCCTGAATCTTCTCCGTGCAGCCCCTGGGGCGCG
ACCTTGTGCGAGGCCCTCGGGGCCACCCACAGCGGCCAGGGCCAGACCTGGCTGGAAGCCAGAACGAGACT
GCAGGGGCCGCGCTGGCTCAGCGCCCCCACCCCCGGGACGTGGGTACITCCTCATGTAAGACTTGGCCG
AAATTCTACACCTGTGTCTAGTCCTCCCCTCCAAGAGCATTAACTATTAAAACAAGGAAAAGAGGAAAAAAA
AACAGAGGCCCGCCCTACCCACTCCTGCCCTCCGTTCTTGCTGAAGTGAGTAGTGTGATCCTGGAGGCC
CCGGCCTGGCCCCGCCAGCCGCCCGTTAGCGTCATAAAAGTCCAGCTTGTCTCCCTGATCAAAGGCC
GTTTCTCGAGGGGAGGGCAGGCCGCTGGAGGGGTGCTGTGGAGCTGTCTGCCAGGCCCTCTGGGAGGG
GGACAGGCATTGTGCCAGGGGTGAGGCCGTGCCAGGCCCTCCCCGAAACCAAAGGGGAAGGCAGGGTGGGG
CGTGGCTGAAGCCGGCTCCCAACCAAATGCTGCACCAAGCTCGGCCGCCAGGCTGCTGCAGTCTC
TTCCCAGCCTGGCCCTGGCAAGGGCGGGTGGCGCTGCCAGGCAGGTGCTCTCGACGCACTTGCTCCGGAGG
CTGCGCCCCGGCGCCTGGAACCCGAGGTGGGAGGACCGGTGGTGTCAACCTGCTCGGCCCTCAGCCCTGCC
TGGGGCGCGTGGGACGGAGCTCCTGCCCTCTGCTCCGACACCCGCAAGCAGCCGGAGACAAAACGCCCTAA
AGCCCCCGGCCAGCCCTGCAGGTATATTGCAGGGCCTGGGGCGGGCTGGACTGGCGGGCGGTTCCCAAGTG
GGGTGCCCTGGAGGCTGCCGGCAGAGTGGAGCAGCTGGGGCGTGCCAGGGCGGTGGCTGTGAGTCTAGTT
TTGCTTACCAAGTGTACAGAAATGGCATTACGTTCTCTGATGCTCCCTGAAGCCATAGAATTAGGGCTT
TTTAAAAAAAATAAAAGAAAATGAAACCAAAAAAAA

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FIGURE 542

MSINTHLGKEQSRRDDLEALGHMFYFLRGSLPWQGLKADTLKERYQKIGDTKRATPIEVLCENFPEEMATYLRY
VRRLDFFEKPDYDYLRLKLFDLFDRSGFVFDYEYDWAGKPLPTPIGTVHTDLPSQPQLRDKTQPPPESSPCSPLGR
DLVRGPRGPPTAAQGQTLAGSQNADCGRRAWLRRPHPRDVGSILPSCKTLAEISTPVSSPPLQEH

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FIGURE 543

AGCTTTGGGTTGCCCTGGACTTGTCTGGTCCAGAACCTGACGACCCGGCACGGCAGCTCTTTGACT
AAAAGACAGTGTCCAGTGCTCCAGCCTAGGAGTCTACGGGACCGCCTCCGCGCCACCATGCCAACTTCT
CTGGCAACTGGAAAATCATCGATCGGAAAACTTCGAGGAATTGCTCAAAGTGTGGGGTGAATGTGATGCTGA
GGAAGATTGCTGTGGCTGCAGCGTCCAAGCCAGCAGTGGAGATCAAACAGGAGGGAGACACTTCTACATCAAAA
CCTCCACCACCGTGGCACCCACAGAGATTAACCTCAAGGTTGGGGAGGAGTTGAGGAGCAGACTGTGGATGGGA
GGCCCTGTAAGAGCCTGGTGAATGGGAGAGTGAGAATAAAATGGCTGTGAGCAGAAGCTCTGAAGGGAGAGG
GCCCAAGACCTCGTGGACCAGAGAACTGACCAACGATGGGAACTGATCCTGACCATGACGGCGGATGACGTTG
TGTGCACCAGGGTCTACGTCCGAGAGTGAGTGGCCACAGGTAGAACCGCGGCCGAAGCCCACACTGCCATGCT
CACCGCCCTGCTTCACTGCCCTCCGTCCCACCCCTCCTTAGGATAGCGCTCCCTTACCCCAGTCACCTC
TGGGGTCACTGGATGCCTTGCAGGGTCTGCTTGCACCTTCTCTCCCTACACCAACAAAGA
GGAATGGCTGCAAGAGCCCAGATCACCCATTCCGGGTTCACTCCCCGCCTCCCCAAGTCAGCAGTCCTAGCCCCA
AACCAAGCCCAGAGCAGGGCTCTAAAGGGACTTGAGGGCTGAGCAGGAAAGACTGGCCCTAGCTTAC
CCTTGCCCTGTAGCCTATACAGTTAGAATATTATTGTTAATTAAAATGCTTAAAAAA

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FIGURE 544

MPNFSGNWKIIIRSENFEELLKVLGVNVMLRKIAVAAASKPAVEIKQEGDTFYIKTSTTVRTTEINFKVGEFFEEQ
TVDGRPCKSLVKWESENKMVCEQKLLKGEGPKTSWTRELTNNDGELILTMTADDVVCTRYYVRE

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FIGURE 545

GCACGCACTGGCCCCGGCGCCACCCGCACCCCTCCCCAGAGAGACTGACACGGCTCCCAGGGACCTCGGCAGGA
TGGAAGAGAAGCTGAAGAAAACCAAGATCATCTTGTGGTGGGTGGCCTGGCTCAGGGAAAGGGCACCCAGTGTG
AGAAGATCGTCAGAAGTATGGCTACACCCACCTCTCCACCGGGGACCTCCTGCCGAGGTCAAGCTCAGGCT
CGGCCAGGGCAAGAAGCTCGGAAATCATGGAGAAGGGCAGCTGGTCCACTGGAGACAGTGTGGACATGC
TCCGGGATGCCATGGTGGCAAAGTCAATACTTCAAAGGCTTCTGATTGATGGCTACCCGCCGGGAGGTGCAGC
AAGGAGAAGAGTTGAGCGACGGATTGGACAGCCCCACTGCTGCTGTATGGACGCAGGCCCTGAGACCATGA
CCCAGCGGCTTGTAAACGTGGAGAGACCAGCGGGCGTGTGGACACAATGAGGAGACATAAAAAGCGGCTGG
AGACCTATTACAAGGCCACAGAACCGTCATGCCCTCATGGAGAACGTGGCATGGCGCAAGGTCAACGCTG
AGGGCTCCGTGGACAGTGTCTTCTCCAGGTCTGCACCCACCTGGACGCCCTAAAGTAGCAACGCTGGAGGCC
TCCCCAGCTCAGAGCCCCGCCCAACCCGCTCTGATTAGAGGTCTCTGCCCTGAGCGCAGGCCCTCACCCTG
CCCTGCTGAGCACAGCGAGGAAGCCGTTATCCTGTTCATGGACAGCTGAGCACTAAAGGAATTCTAAGG
ACATTTGGTTTACTGCTTTCTGCTTCCAGGTGGAGTTGATTGATGTGCTTGTGCCCTACCTGGCCGAAGT
CCCCAGCCCCCAACCCCTCCCTCCTCAGCCTCCCTTGCCAGCCACCCCTCCTCTAGCTCTGGTGGAGGC
CCGGGGCCCTCCTCGCACAGGGCATGCCCTGGCTGAGGACCCGGCGCTGAGTGGCGGGGCCCTGCTCCGAGGG
GCTCATGTTCAGGCAGAACGGTCCCAGCCTGGCTCTGCATCTGCTCTGTGCCCTGCCCTGACCCCCAT
CGCTCTGAGCATATGTTCCATGCCCTGCCCTGGCGCCACGCCAGCTGGCCAGTGGTAGTGAATTGGCTTCTGACCGAGAGG
CTCTGAGGTCTGAAAAGGGCATCTCAATGGCATGGTGGGTGGGAGTCAGTCATGTCAGTGAATGGGG
GGAGGCCAATGAGGTGGCTATGCCCTGTAATCCCACTTGGGAAGCTGAGGCAGGAGGATCACCTGAGGT
AGGAGTTGAGAGCAGCCTGCCAACATGGAAAACCCCTTATTTACTAAAAATAAAAACCTAGCCGGCATG
GTGGCATGTGCCCTGTATTCCCAGCTACTCATGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGAGTGGAGCTG
CAATGAGCCAAGATTGCCACTGCACCTCAGCCTGGGTGACAGAGCAAGACTCCGTCTCAAAAAAAAAAAAAA
AAAAAAAGAAATTAAATTGGGGAGTCATGGTCAGGGGTGAGACCTGAAGGACCTCCCCCTGTGTGCCCTGGACAC
AGCCCACCCCTGTGAGCCGTTCCAATTCTAAACAGACTCAATGTCCCCCTACCCCCACCTCAAGGTCAAGG
TGCACACACTGAGTGAGGAGTGGACGCTGTCCATTGCCACGGCATGAGGGCTGGAGACAGAACAGCATGG
CCGAAGCGTGCAGGGCCCGGATGACTGGGGACACCCAGAATCCCTGGGAGAACCCCTGCCGCTTTC
ATTTTTGACCTCATCACTGAGAAAGGCTCAATTGGTGCTCACGTGCTTAACACCTGATCTGGCCAAGCTG
CGTGCCTTAAAGCCAAGAGAGCCTTGTGGACCCGCCTGCCGAATGAAATCCGAACAGTTGGGTGTTAT
GGCAAGTGGGCTGGTTTCATTCCATTGGTTATTAAAGTTCTTAAACAGTAAAGTAAAGTATAAGT
AGGTGAATCTATTGAAAGAAGAACATCAAAGAAATAACAGGAGTTCAGCGGAGTAGCAGAAGACAAGGCATGTA
GGGGAGCCATTCTGCCCAG

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FIGURE 546

MEEKLKKTKIIFVVGGPGSGKGTQCEKIVQKYGYTHLSTGDLLSEVSSGSARGKKLSEIMEKGQLVPLETVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLVDAGPETMTQRLIKRGETSGRVDDNEETIKKRLÉYYKATEPVIAFYEKRGIVRKVNAEGSVDSVFSQVCTHLDALK

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FIGURE 547

CGGTTTCTCCCCATCCCTTGACTCTCCCTCCCAGCCCTCGCTCTCGCTGCCCTCAGCGCGCCCCGC
CATGACGGAGGGCGGTGCCGGTGCCTGCCGCCGCTGCCCGTCGAGGGGGGGAGTCGGGTTCCCAGAAAGTAGC
TTGATGAGTGTCAAAGTAGCAGTGGAGTTGGAGGGCCCATCTGGTCCAGCTCCACGTCTCAACC
CCGGGCTCGGCGGCCAGGTCCCTGCTGAATCACACGCCATCCGGAGGCCAGGGAGGTGCAATG
GATGAGCITCATAGCTGGATCCAAGAAGGCAAGAGTTATTGGAGGCTAGATTTACTGGAGTTGCAAGTGGAGC
ACTGGAAGTACGGCAGTTGAGTGTGGTCTAAAGCCACAACAAATAACGAAAGCTCTAATCACAGTTGGA
AGCTTGGGATCTTAAGTGACAAAGAACATCAGAGACACCGGAGAAGAAACAATCGGAATCATCCAGGGAGAAAG
AGAAAAGCAGAAACAGAACATGAAAGTAGTCAGGGAAAAGTATTGGGGAGCTGGCCACAAAATTAGCGACTAT
TTTGAATACCAGGGTGGAAATGGCTCAAGTCCAGTAAGAGGCATACCTCTGCAATCCGTTCTCTCAAAATTCA
CATTCACATTCCACTCCTCTCATCTGTCGACCGAATAGCCCTCTCCTACTGCATTAGCATTGGGACAC
CCTATTGTACAACCAAAGCAATTATCCTTAAAATTATTCAAGACTGATCTCACAATGCTGAAATTAGCAGCATT
GAAAGTAATAAAATCCAGGACCTGGAAAAGAAGGAGGGACGTATAGATGATTGCTCAGGGTAACTGTGATCTC
AGACGGCAAATAGATGAACAACAAAATTACTGAAAAATACAAAGAACGATTAATAAGTGCATATCAATGAGC
AAGAAACTCTTATTGAAAAGAGTACACAAGAAAAGCTGTCAAGCAGAGAGAAGAGTATGCAAGATCGATTACGC
CTCGGGCACTTACAACAGTTAGACATGGCGCTTCATTTACTGAACATGGACAGATGGTTTGCAATTTCAGAAT
CTTGTGAAGCAACAAGAATGGTGAATCAGCAAAGGAAGATATTGAAAGGAAAGGAAACTCTAGCCAAACGC
AAACCTCCCACAGCTAATAATTCTCAGGCACCTCTACCAATTCTGAACCAAAACAAGGAAAACAAGCAGTC
AATGGAGCAGAGAACATGATCCTTGTTAGACCAATTACCAACTGTTGACTTGGCAGAATATCATGAACAG
GAAGAAATTTCAAACTTAGACTAGGACATCTAAAAAGGAAGAGGCAGAAATCCAGGCAGAACATTGAAACGTTG
GAAAGAGTCAGAAATCTTCACATACGTGAGCTGAAAAGAATAAAACAATGAAGATAATTCACAGTTCAAAGATCAC
CCAACATTAATGAAAGATATTATTACTTCATCTGCTTGGTAGAGGTGGCTTAGTGAAGTGTATAAGGCTTT
GACCTTATGAACAAAGATACTGCTGTGAAGATACTCAGCTTAATAAAAGCTGGAGAGATGAGAAGAAAGAA
AACTACCCACAAACATGCCTGCAGAGAGTATAGAATAACACAAAGAACCTGGATCACCCAGAATAGTTAAACTCTAT
GATTATTCTCCTGGATACAGATACGTTTGTCAGTGTAGAATACTGTGAAGGCAATGACTTGGATTCTAT
CTGAAGCAACACAAGTTAATGTCAGAGAAAGAACGCTCGGTCTATTGTAATGCAGATTGTAATGCACTAAGATAT
CTCAATGAGATCAAACCCCTATTATACATTATGATCTTAAGCCAGGAAACATCCTACTGGTAGATGGAACAGCA
TGTGGTGAATCAAATCACTGATTTGGTCTGTCAGGATTATGGATGATGATAGCTATGGTAGATGGAATG
GATCTAACTTCCCAGGGGCAGGCACTACTGGTATTACCTCTGAGTGTAGTTGAGTGGAAAAGAGCCACCA
AAGATTCCAACAAGGTTGATGTATGGCGTTGGAGTCATCTTTCAGTGTCTTATGGTAGAAAGCCATT
GGTCACAATCAATCTCAACAAGACATTCTCAAGAAAATACAATATTAAAAGCCACAGAACGCTCAGTTCCCTGTA
AAACCGGGTGTAAAGCAGTGAAGCCAAGGCATTATAAGACGCTGTTGGCATATCGAAAAGAGATCGATTGAT
GTGCACCAGCTGGCAAATGACCCATACCTCTCCACACATGAGAAGATCAAATTCTCAGGAAACCTACACATG
GCTGGCTGACAGCATCCCCATACCCCCCTTCTCAAGCATAATTACTTACTTGAATTCCCAAGATTGGCATG
ATATCTTGAATTGCTCCAGATGCACACTTAAGTTGAGAGCATTGAGTGTGTTGTTCTTTCTTTTT
TTTTTTTTTTTTTACACAAGACGTGGTAAAGAAACTGTTGACTGAAGTCCCTCATAGTGTCAATTGGTAT
GAGAGAGGATCATGGACAATGAATAATGCACACTCTGACTATAATTGAGCAGTGAAGGAAGGATGACTGCC
TGTTACACAGAAACAGGAATACCATGTTAAGATAGAGGAAAAAA

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FIGURE 548

MSVQSSSGSLEGPPSWSQLSTSPTPGSAAAARSLLNHTPPSGRPREGAMDELHSLDPRRQELLEARFTGVASGST
GSTGSCSVGAKASTNNESSNHSFGSLESLSDKESETPEKKQSESSRGRKRKAENQNESSQGFPNLPVFQSAYWE
MGRTAGGKSIGGRGHKISDYFEYQGGNGSSPVRGIPPAIRSPQNHSHTPSSVRPNSPSPTALAFGDHPIVQP
KQLSFKIIQTDLTMLKLALESNKILDLEKKEGRIDLRLANCDLRRQIDEQQKLLDKYKERLNKCISMSSKKLLI
EKSTQEKLSSREKSMQDRRLGHFTTVRHGASFTEQWTDGFAFQNLVKQQEWVNQQREDIERQRKLLAKRKPPA
NNSQAPSTNSEPKQRKNKAVNGAENDPFVRPNLPQLLTLAEYHEQEEIFKLRLGHLKKEAGIQAELERLERVRN
LHIRELKRIHNEDNSQFKDHTPLNERYLLLHLLGRGGFSEVDKAFDLSEQRYAAVKIHQLNKSWRDEKKENYHKH
ACREYRIHKELDHPRIVKLYDYFSLDDTFCTVLEYCEGNLDFYLKQHJKLMSEKEARSIVMQIVNALRYLNEIK
PPIIHYDLKPGNILLVDGTACGEIKITDFGLSKIMDDDSYGVDGMVLTSQGAGTYWYLPPCFVVGKEPPKISNK
VDVWSVGIVFYQCLYGRKPFGHNQSQQDILQENTILKATEVQFPVKPVSSEAKAFIRRCLAYRKEDRFDVHQLA
CDPYLLPHMRRSNSSGNLHMAGLTASP TPPSSSIITY

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FIGURE 549

TCGGCCGAGCCCAGAGACAGCCAGTTCTCTCCGCCGCCGGCGTGCCTCGCTCCCCGGCCGTGGCG
CCTCCGGGCCAGACCGCCTGCAGCCTCAGCCGCCAAGCGGGCGGGCGGCCACCCCCGGCCCCGCG
CCAGCAGCCCCCTGCCGCCGTCCAGCGTTCCCGCCAGCAGCCTCCCCATACGAGTCCTGCTGGACC
TCGCGCCCCCACTCTGAACGTCAACCGTGGAGCTCCGCCGCCAAACTTCACGCGAGCGGGAAATATG

GGATGTATAAAATCAAAGGGAAAGACAGCTTGAGTGACGATGGAGTAGATTGAAGACTCAACCAGTACGTAAT
ACTGAAAGAACTATTATGTGAGAGATCCAACGTCCAATAAACAGCAAAGGCCAGTCCAGAATCTCAGCTTTA
CCTGGACAGAGGTTCAAACATAAGATCCAGAGGAACAAGGGAGACATTGTGGTAGCCTGTACCCCTATGATGGC
ATCCACCCGGACGACTTGTCTTCAGAAAAGGAGAGAAGATGAAAGTCTGGAGGAGCATGGAGAATGGTGGAAA
GCAAAGTCCCTTTAACAAAAAAAGAAGGCTTCATCCCCAGCAACTATGTGCCAAACTCAACACCTTAGAAACA
GAAGAGTGGTTTCAAGGATATAACCAGGAAGGACGCAGAAAGGCAGCTTGGCACCCAGGAAATAGCGCTGGA
GCTTCCATTAGAGAAAGTGAACATTTAAAGGAAGCTCTCTGTCTGTCAAGAGACTTGCACCTGTGCAT
GGTGTGTTAAAGCACTACAAATTAGAAGTCTGGATAATGGGGCTATTACATCTCCACGAATCACTTT
CCCTGTATCAGCGACATGATTAACATTACAAAAGCAGGCAGATGGCTGTGCAGAAGATTGGAGAAGGCTTGT
ATTAGTCCAAGCCACAGAACGATGGATAAAAGATGCCTGGAGATCCCCGGAGTCCATCAAGTTGGTGA
AGGCTTGGCGCTGGCAGTTGGGAAGTCTGGATGGTTACTATAACACAGTACCAAGGGCTGTGAAAACC
CTGAAGCCAGGAACATATGTCGTGCAAGCCTTCTGGAAGAAGCCAACCTCATGAAGACCCCTGCAGCATGACAAG
CTCGTGAGGCTCTACGCTGTGGTACCAAGGGAGGCCATTACATCATCACCGAGTACATGGCAAGGGCAGT
TTGCTGGATTCTGAAGAGCGATGAAGGTGGCAAAGTGCCTCAAAGCTCATTGACTTTCTGCTCAGATT
GCAGAGGGAATGGCATACATCGAGCGGAAGAACTACATTACCGGGACCTGCGAGCAGCTAATGTTGGTCTCC
GAGTCACTAATGTGCAAATTGAGATTGGCTTGCTAGAGTAATTGAAGATAATGAGTACACAGCAAGGAA
GGTCTAAGTCCCTATTAGGACGGCTCCAGAACAGCAATCAACTTGGATGTTCACTATTAGTCATGTG
TGGCTTGGAAATCCTCTATACGAAATTGTCACCTATGGGAAATTCCCTACCCAGGGAGAACTATGCCGAC
GTGATGACCGCCCTGTCCCAGGGCTACAGGATGCCGTGTGGAGAACTGCCAGATGAGCTCTATGACATTATG
AAAATGTGCTGGAAAGAAAAGGCAGAACAGAGAACCAACGTTGACTACTACAGAGCGCTGGATGATTCTAC
ACAGCCACGGAAGGGCAATACCAGCAGCAGCTTAGAGCACAGGGAGACCGTCCATTGGCAGGGGGCTG
TCATTTAGAGAGGAAAGTAACCATCAGGTTGCACTTATGATTCTATGTGCGGGGATCATGCCGTGCG
ATCCTGAAATAGAGGCTAAATTACTCAGGAAGAACCCCTCTAAATGGGAAAGTATTCTGACTCTTAGATGGAT
TCTCCACTCAGTTGCAACTTGGACTTGTCTCTCAGCAGCTGGTAATCTGCTCTGCTTGACAACATCTGAGTGCAG
CCGTTGAGAAGAAAACATCTATTCTCCAAAATGCACCCAACTAGCTCTATGTTACAAATGGACATAGGAC
TCAAAGTTTCAAGAGACCATTGCAATGAATCCCCAATAATTGCAGAACACTAAACTCATTATAAGCTAAAATAACC
GGATATATACATAGCATGACATTCTTGTGCTTGGCTTACTGTTT

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FIGURE 550

MGCIKSKGDLSDDGVDLKTQPVRNTERTIYVRDPTSNKQQRPVPESQLLPQRFQTKDPEEQGDIVVALYPYD
GIHPDDLSFKKGEKMKVLEEHGEWWKAKSLLTKKEGFIPSINYVAKLNTLETEEWFKDITRKDAERQLLAPGNSA
GAFLIRESETLKGSFSLSVRDFDPVHGDIVKHYKIRSLDNGGYIISPRITFPCISDMIKHYQKQADGLCRRLEKA
CISPKPQPKPWDKDAWEIPRESIKLVKRLGAGQFGEVWMGYYNNSTKVAVKTLKGTMQAFLEEANLMKTLQHD
KLVRLYAVVTREEPIYIITEYMAKGSLLDFLKSDEGGKVLLPKLIDFSAQIAEGMAYIERKNYIHRDLRAANVLV
SESLMCKIADFGGLARVIEDNEYTAREGAKFPPIKWTAPEAINFGCFTIKSDVWSFGILLYEIVTYGKIPYPGRNA
DVMTALSQGYRMPRVENCPDELYDIMKMCWKEKAERPTFDYLQSVLDDFYTATEGQYQQQP

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FIGURE 551

GAATTCCCTGCAGCTCAGCAGCCGCCAGAGCAGGACGAACCGCCAATCGCAAGGCACCTCTGAGAACCTCAGG
ATGCCAGATGTCTCCAGCCCTCACCTGCCTAGTCCTGGGCCCTGGCTTGTCAAGGGTCTGCTGTGCAC
CATCCCCCATCTACGTGGCCCACCTGGCCTCAGACTCAGGGTGGCTGGCCATGCTCCAGCTGACAACAGGAGGA
AAGGACCGCAACGTGGTTCTCACCCATGGGTGGCTGGTGTGGCCATGCTCCAGCTGACAACAGGAGGA
GAAACCCAGCAGCAGATTCAAGCAGCTATGGGATTCAAGATGATGACAAGGGCATGGCCCCGCCCTCCGGCAT
CTGTACAAGGAGCTCATGGGCCATGAAACAAGGATGAGATCAGCACACAGACGGCATCTCGTCCAGCAGGGAT
CTGAAGCTGGTCCAGGGCTTCATGCCCACTTCTCAGGCTGGTCCGGAGCACGGTCAAGCAAGTGGACTTTCA
GAGGTGGAGAGAGCCAGATTCATCATCAATGACTGGTGAAGACACACACAAAAGGTATGATCAGCAACTTGCTT
GGGAAAGGAGCCGTGGACCAGCTGACACGGCTGGTGTGGTAATGCCCTACTTCAACGCCAGTGGAAAGACT
CCCTCCCCGACTCCAGCACCCACCGCCGCTCTCCACAAATCAGACGGCAGCACTGTCTGTGCCCATGATG
GCTCAGACCAACAAGTCAACTATACTGAGTTACCACGCCGATGCCATTACTACGACATCCTGGAACTGCC
TACCACGGGGACACCCTCAGCATGTTCAATTGCTGCCCTATGAAAAAGAGGTGCCCTCTCTGCCCTCACCAAC
ATTCTGAGTGCCAGCTCATGCCACTGAAAGGCAACATGACCAGGCTGCCCGCTCTGGTTCTGCCAAG
TTCTCCCTGGAGACTGAAGTCGACCTCAGGAAGCCCCTAGAGAACCTGGGAATGACCGACATGTTCAGACAGTT
CAGGCTGACTTCACGAGTCTTCAGACCAAGAGCCTCTCCACGTCGCGCAGGCCTGCAGAAAGTGAAGATCGAG
GTGAACGAGAGTGGCACGGTGGCTCCATCCACAGCTGTCATAGTCTCAGGCCCATGGCCCCCGAGGAGATC
ATCATGGACAGACCCCTCTCTTGTGGTCCGGACAACCCACAGGAACAGTCCTTTATGGCCAAGTGTGATG
GAACCCTGACCCTGGGAAAGACGCCATCTGGACAAAAGTGGAGATGCATGGGAAAGAAGAAACTCCGAA
GAAAAGAATTAGTGTAAATGACTCTTCTGAAGGAAGAGAACATTGCCCTTGTAAAGATGGTAAACC
AGATCTGTCTCCAAGACCTGGCTCTCTGGAGGACCTTGGTCAAACCTCCCTAGTCTCCACCTGAGACCC
GGGAGAGAAGTTGAAGCACAACCTCCCTAAGGCTCCAAACAGACGGTGACGCCGCGGACCATCTGGGCA
CCTGCTTCCACCCGCTCTGCCACTCGGTCTGCAGACCTGGTCCACTGAGGCCCTTGCAGGATGGAAC
TACGGGCTTACAGGAGCTTTGTGTGCCCTGGTAGAAACTATTTCTGTTCCAGTCACATTGCCATCACTCTGTA
CTGCCCTGCCACCGCGGAGGAGGCTGGTACAGGCCAAAGGCCAGTGGAAAGAACACCCCTTCATCTCAGAGTCCA
CTGTGGCACTGCCACCCCTCCCCAGTACAGGGGTGCTGCAGGTGGCAGAGTGAATGCCCATCATGTGGCCC
AACTCTCCTGCCCTGGCCATCTCCCTCCCCAGAACAGTGTGCATGGTTATTTGGAGTGTAGGTGACTTGT
ACTCATTGAAGCAGATTCTGCTTCTTATTTATAGGAATAGAGGAAGAAATGTCAGATGCGTGCCAGCT
CTTCACCCCCCAATCTTGTGGGGAGGGGTGACCTAAATATTATCATATCCTGCCCTGAGTGTGTTA
GAGAGAAAGAGAACTACTAAGGAAATAATATTAAACTCGCTCTAGTGTCTTGTGGTCTGTGTCACC
GTATCTCAGGAAGTCCAGCCACTTGACTGGCACACACCCCTCCGGACATCCAGCGTACGGAGCCACACTGCCA
CCTTGTGGCGCCTGAGACCTCGGCCCGGCCCGGCCCTCTTCCCTGATGGAAATTGACC
ATACAATTCTACCTCCTTCAGGGATCAAAGGACGGAGTGGGGGGACAGAGACTCAGATGAGGACAGAGTGGT
TTCCAATGTGTTCAATAGATTAGGAGCAGAAATGCAAGGGCTGCATGACCTACCAGGACAGAACCTCCCAA
TTACAGGGTGACTCACAGCCGATTGGTACTCACTCAATGTCATTCCGGCTGTTGAGCAGTGG
CACGTGAGGGGGGGGTGGTGAGAGAGACAGGCAGCTGGATTCAACTACCTAGATAATATTCTGAAAACCTA
CCAGCCAGAGGGTAGGGCAGAAAGATGGATGAAATGCACTTGGGAGGCCAAGGCGGGAGGATTGCTTGAGGCCA
GGAGTTCAAGACCAGCCTGGCAACATACCAAGACCCCCGCTCTTAAAAATATATATTTAAATACTTA
AATATATATTCTAATATCTTAAATATATATATTAAAGACCAATTATGGGAGAATTGCACACAGATG
TGAAATGAATGTAATCTAATAGAAGC

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FIGURE 552

MQMSPALTCLVLGLALVFGEGSAVHHPPSYVAHLASDFGVRVFQQVAQASKDRNVVFSPYGVASVLAMILQLTTGG
ETQQQIQAAMGFKIDDKGMAPALRHLYKELMGPWNKDEISTTDAIFVQRDLKLVQGFMPHFRLFRSTVKQVDFS
EVERARFIINDWVKTHTKGMISNLLGKGAVDQLTRLVLVNALYFNGQWKTPFPDSSTHRRLFHKSDGSTVSVPMM
AQTNKFNYTEFTPDGHYYDILELPYHGDTLSMFIAAPYEKEVPLSALTNILSAQLISHWKGNMTRLPRLLVLPK
FSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVAQALQKVKIEVNESGTVASSSTAVIVSARMAPEEI
IMDRPFLFVVRHNP TGTVLFMQVMEP

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FIGURE 553

CTTCGGCCTGCTGTAGTGCCTCTGCCAGGCCGGTTCAATCAGGGCCACAACGTCTAGGGCTCAGACAC
CACCAAGCCAATGAGGGAGGGCACGTGGAGGCCGCGTCTGGGCTCGGGCTCCTGACCAATGGGAAGTGGCATGTG
GGAGGGCGCCGGGGTCCCCCGCCAATGGGAGCTACGGCGCGGGCGGGACTTGAGGGCGGTGCGGCGCGGC
GGGTGCGGTTCACTCGGTGGCGGGCAGCGGAGGAGGAGGAGGAGGAGGATGAGGAGGATGAGGAGGATG
TGGGCCACGCAGGGCTGGCGTGGCTTGAGCGTGCCTGAGCGTGCCTGAGCGTGCCTGAGCGTGCCTGAGCGAC
TGCAGAAGTTGTATTCTTATCTGGAAAGATTTACCAAGGACCTCAAAGACAGAGATGTACATTCTACCAGCC
ACTATTGAAAACGAACCTATAAAAGTTCTGCCGGGAAGCAAGAGGAAAGAGAATCGGTTGCTACTATATCGGG
GCCACAGATGATGCAGGCCACCAAAATCATCAATGAGGTATCAAAGCCTCTGGCCACCACATCCCTGAGGAGAAG
ATCTGTGAGAAGCTTAAGAAGAAGGACAGCCAGATATGTGAGCTTAAGTATGACAAGCAGATCGACCTGAGCACA
GTGGACCTGAAGAAGCTCGAGTTAAAGAGCTGAAGAAGATTCTGGATGACTGGGGGAGACATGCAAAGGCTGT
GCAGAAAAGTCTGACTACATCCGAAGATAATGAACGTGCTAAATATGCCCAAGGCAGCCAGTGCACCG
ACCGATTGTAGCTGCTCAATCTCTGTCACCTGAGGGGGAAAAACAGTTCACTGCTACTCCCACAG
CCTTTTGTAATTATTTTAAGTGGGCTCTGACAATACTGTATCAGATGTGAAGCCTGGAGCTTCCTGATG
ATGCTGCCCTACAGTACCCCCATGAGGGGATTCCCTCTGCTGGTGTACTCTAGGACTTCAAAGTGT
GTCTGGGATTTTTATTAAAGAAAAAAATTCTAGCTGTCAAAAAAAAAA

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FIGURE 554

MGKWHVGGRRGSPRGATARGDLEAVRRGGCGSVGRRQRRRRRRMRRMWRATQGLAVRVALSVLPGSR
ALRPGDCEVCISYLGRFYQDLKDRDVTFSATIENELIKFCREARGKENRLCYYIGATDDAATKIIINEVSKPLAH
HIPVEKICEKLKKKDSQICELKYDKQIDLSTVDLKKLRVKELKKILDWGETCKGCAEKSODYIRKINELMPKYAP
KAASAPTDL

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FIGURE 555

AGCAGAGGACTTTAGCTGCTCACTGGCCCCGCTTGTCTGACCGACTCATCCGCCGCGACCCCTAATCCCCTC
TGCCTGCCCAAGATGCTGAAGCCAGCCCTGGAGCCCCGAGGGGGCTTCCTCGAGAACTGCCAAAGAAAATGC
ATCATTGGAACGCGCCTCCGGGCTCAAGGTCCCTCACCGCACGCAAGACCGGGACCACCATCGCGGCCTGGT
GTTCCAAGACGGGGTCAATTGGCGCCGATACGCGAGCCACTAACGATTGGTGTGGCGACAAGAGCTGCGA
GAAGATCCACTTCATGCCCAAAATCTACTGCTGTGGGCTGGAGTAGCCGGGACGCCAGATGACCACACG
GATGGTGGCGTCCAAGATGGAGCTACACGCGTTATCTACGGGCCGCGAGCCCCGCGTGGCACGGTCACTCGCAT
CCTGCGCCAGACGCTCTCAGGTACCAGGGCACGTGGGTGCATCGCTGATCGTGGCGGGTAGACCTGACTGG
ACCGCAGCTCTACGGCGTGCATCCCCATGGCTCTACAGCCGTCTGCCCTCACAGCCCTGGCTCTGGTCAGGA
CGCGGCCCTGGCGGTGCTAGAAGACCGTTCCAGCGAACATGACGCTGGAGGCTGCTCAGGGCTGCTGGTGA
AGCCGTACCGCGGGATCTGGGTGACCTGGCTCCGGGGCAATGTGGACGCTGTGATCAAAGACTGG
CGCCAAGCTGCTGCGGACACTGAGCTACCCACAGAGCCGTGAAGAGGTCTGGCGCTACCACCTTGTGCCTGG
AACCACAGCTGTCTGACCCAGACAGTGAAGCCACTAACCTGGAGCTAGTGGAGGAAACTGTGCAGGCTATGGA
GGTGGAGTAAGCTGAGGCTTAGAGCTTGGAACAAAGGGAAATAAACCCAGAAAATACAGTAAAAAAAAAAAAAAA
CAAAAAAAAAAAAAAAA

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FIGURE 556

MLKPALEPRGGFSFENCQRNASLERVLPGLKVPHARKTGTTIAGLVFQDGVLGADTRATNDSVVADKSCEKIHF
IAPKIYCCGAGVAADAEMTTRMVASKMELHALSTGREPRVATVTRILRQTLFRYQGHVGASLIVGGVDLTGPQLY
GVPHGGSYSRLPFTALGSGQDAALAVLEDRFQPNMTLEAAQGLLVEAVTAGILGDLGSGGNVDACVITKTGAKLL
RTLSSPTEPVKRSGRYHFVPGTTAVLTQTVKPLTLELVEETVQAMEVE

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FIGURE 557

CGGAGCCGCCGCTGAGGTAGAAGGAGGCCTGCGCTGATGGGTCGCCGCCAGAGCCAGAGTCGAG
CCGAGGGAGCCGGGCCGGAGCCCAGGCCGAGCCGAGCCGGAGACCGTGCACCGC
CCTCGGCCGCCGCCGCCGCCAGGCCATGGAAGGAGTGCCTCTCCATACAGAGCCACGTC
ATCCGCGGCTACGTGGCAACCGGGCCACGTCCGCTGCAGGTTGGATTGAGATTGACGCCGTGAAC
TCTGTCCAGTTCAAACACACAGGCTATGCCACTGGAAGGGCAAGTGCTGAATTGAGATGAGCTCCAGGAG
TTGTACGAAGGCCTGAGGCTGAACAACATGAATAAAATGACTACGTGCTCACAGGTTATACGAGGGACAAGTCG
TTCCTGCCATGGGGTGGACATTGTGCAGGAGCTGAAGCAGCAGAACCCAGGTGGTACGTGTGATCCA
GTCTGGGTGACAAGTGGGACGGCGAAGGCTCGATGTACGCCGGAGGACCTCTCCGCTACAAAGAAAAA
GTGGTGCCGCTTGCAGACATTATCACGCCAACCAAGTTGAGGCCAGTTACTGAGTGGCCGAAGATCCACAGC
CAGGAGGAAGCCTGCGGGTGTGGACATGCTGACTCTATGGGCCCGACACCGTGGTACACCAGCTCCGAC
CTGCCCTCCCCGAGGGCAGCAACTACCTGATTGTGCTGGGAGTCAGAGGAGGAGGAATCCGCTGGCTCCGTG
GTGATGGAACGCATCCGGATGGACATTGCAAAGTGGACGCCGTTGTGGGACTGGGACCTGTTGCTGCC
ATGCTCTGGCGTGGACACACAAGCACCCAAATAACCTCAAGGTGCCGTGAGAAAGACCGTGTCTACCTGAC
CACGTTCTGCAGAGGACCATCCAGTGTGAAAAGCCAGGCCGGGAAGGGAGTGAGGCCAGCCCCATGCAGCTG
GAGCTGCCATGGTGCAGAGCAAAAGGGACATCGAGGACCCAGAGATCGTGTCCAGGCCACGGTGTGTGAGGG
CCCCGCCGCTTGCCGTGACACGCAGCGCTGGTGTCTCCGTGTTGTCCCTGTGAAAACATGTAACGTCTGCC
TTAGAGCCATGACCGAAACTGATATTTTTCTTCATGAGTGTCCGGCATCTGCTGGTCTTCATTGTGAAACG
TGCCAGTCGTCTTGTGAAAAATAACAAAGTGGTCACAAAAAAAAAAAAAA

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FIGURE 558

MEEE CRVLSIQSHVIRGYVG NRAATFPLQVLGF EIDAVNSVQFSNHTGYAHWKGQVLNSDELQELYEGLRLNNMN
KYDYVLTGYTRDKSFLAMVV DIVQELKQQNPRLVYVCDPVLGDKWDGE GS MYVPEDLLPVYKEKV VPLADIITPN
QFEAELLSGRKIH SQEEALRVMDMLHSMGPDTVVITSSDLPSPQGSNYLIVLGSQRRRN PAGSVV MERIRMDIRK
VDAVFVGTGDLFAAMLLAWTHKHPNNLK VACEKT VSTLHHVLQRTIQC AKAQAGEGV RPSPMQLELRMVQSKRDI
EDPEIVVQATVL

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FIGURE 559

GCAGCCAGGCGCGCACTGCACAGCTCTTCTCGCCGCCGGCAGACAAACAGCCGCCGACCCCGTCCCACCCCTGGCCGCCGGCAGCG
GAGCCTGGAGCAAATGATGCTCAACACCCAGGCCAGGTCTGCTCGGAAGTGAGTGCTCTGCCATCGTCC
CCTGCCTGTCCCCCTCTGGTCACTGGTGTGAGGATTGCTAACCTGACGCCCTTGTCAAGGAAGAGCTGA
GGTTGCCATCCAGAACAGCACCTCTGCCACCAGGATGTCCTCTGCCTGGAATCAGTCAGTCAGCGACAGAC
CCCTCGGGGTGTCCATCACAAAAGCCGAGGTAGCCCCTGAAGAAGATGAAAGGAAAAGAGGCGACGAGAAAGAA
ATAAGATTGCAGCTGCAAAGTGCCGAAACAAGAAGAAGGAGAAGACGGAGTGCCTGCAGCTCAGTATTAGCAGA
GCCACAGGCCGCCTCTGGCATCACCAAGGTTCTGTAAGAAGAGGGTCTGCATTTCCTAAACCCAGTGTG
CTCTCCCATCTCCATCTTCTCTCGCAGCTTGATGAGCCCCGGTGTCTCCAGGAGTCGGAGAAGCTGGAAAGT
GTGAATGCTGAAGTCAAGGCTCAGATTGAGGAGCTCAAGAACGAGCAGCATTGATATACATGCTAACCTT
CATCGGCCACGTATTGTCCGGCTCAGAATGGGAGGACTCCAGAAGATGAGAGAAACCTTTATCCAACAG
ATAAAAGAAGAACATTGCAGAGCTAACGAGTCGTTGATGGGGCGACTGGGGAGTCCTCATGAACTCTCATT
TTATACCCAAAACCTGAAGCCATTGGAGAGCTGCTTCTGTGTACCTCTAGAACCTCCAGCAGCAGAGAACCAT
CAAGGCGGGAGGGCCTGCAGTGATTCAAGCAGGCCCTCCATTCTGCCAGAGTGGGTCTGGACCAGGGCAAG
TGCATCTTGCTCAACTCCAGGATTAGGCCTAACACACTGGCATTCTATGTTCCAGATGGCCCCAGCTG
GTGTCTGCCGCTTCATCTGGATTCTACAAAAAACAGGATGCCACCGTTAGATTCAAGCAGTCAGTGTCTG
TACCTCGGGTGGAGGGATGGGCCATCTCTCACCGTGGCTACCATTGTCACTCGTAGGGATGTGGAGTGAG
AACAGCATTAGTGAAGTTGTCAACGCCAGGGTGTGCTTCTAGCAAATATGCTGTTATGTCAGAAATTGT
GTGTGCAAGAAAATAGGCAATGACTCTCCGATGTTGTGTCACACAACACTGATGTGACTTTATATGCTT
TTCTCAGATCTGGTTCTAAGAGTTGGGGGGGGCTGTCACCACAGTGCAGTATCTCAAGATATTCAAGGTTG
CCAGAAGAGCTTGTCAAGAGGAGGAACAGAACATTCTCCAGCGTTAACACAAAATCCATGGCAGCATGATGG
CAGGTCTCTGTCAAACTCAGTTCAAAGTCAGGAGAAAGCAGAAAGTCAACTTCAAAGGGTTAGGAC
TCTCCACTCAATGCTTAGGTCAAGGAGTTGTCTAGGCTGGAAGAGCCAAGAAATATTCCATTTCCTTCT
TGTGGTTGAAACCACAGTCAGTGGAGAGATGTTGGAACACAGTCAGTGGAGCTGGTACCGAGTTAGCATT
ATTGGATGTCAAAAGCATTTTGTATGTAGCTGTTAAGAAATCTGGCCCAGGGTGTGTCAGCTGTGAG
AAGTCACTCACACTGGCCACAAGGACGCTGGCTACTGTCTATTAAAATTCTGATGTTCTGTGAAATTCTCAGAG
TGTTAATTGTACTCAATGGTATCATTACAATTCTGTAAGAGAAAATTACTTATTATCCTAGTATTCTA
ACCTGTCAGAATAATAATTGTGGTAAA

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FIGURE 560

MMLQHPGQVSASEVSASAIVPCLSPPGSLVFEDFANLTPFVKEELRFAIQNKHLCHRMSSALESVTVSDRPLGVSI
ITKAEVAPEEDEKKRRERNKIAAAKCRNKKKEKTECLQLQY

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FIGURE 561

GGCCTCCCAC TTGGTTGCTCGTACGC GGCTAGTGGGT CCTCAGTGGATGTAGGCTGGCGCCGATGTTGACG
GGACACCGGGCGGAGAGCGACCTCGGGGTTAAGGGTGGGGCTGGACGT CAGGAGCCAAGATGGCGGCGGTGGTCG
CACTCTCCTTGAGGCGCCGGTGC CGGCCACAACCC TTGGCGGAGCCTGCCTGCAGGCCTCCGAGGAGCCCAGA
CAGCTGCAGCCACAGCTCCC GTATCAAGAAATTGCCATCTATCGATGGACCCAGACAAGGCTGGAGACAAAC
CTCATATGCAGACTTATAAGGTTGACCTTAATAAATGTGGCCCCATGGTATTGGATGCTTTAATCAAGATTAAGA
ATGAAGTTGACTCTACTT GACCTTCCGAAGATCATGCAGAGAAGGCATCTGTGGCTCTTGCAATGAACATCA
ATGGAGGCAACACTCTAGCTGCACCCGAAGGATGACACCAACCTCAATAAGGCTCAA AAAATCTACCCCTTTC
CACACATGTATGTGATAAAGGATCTT GTTCCGATTGAGCAACTTCTATGCACAGTACA AATCCATTGAGCCTT
ATTTGAAGAAGAAGGATGAATCTCAGGAAGGCAAGCAGCAGTATCTGAGTCCATAGAAGAGCGTGAGAAA CTGG
ACGGGCTCTACGAGTGCATTCTCTGTGCCCTGCTGTAGCACCAGCTGCCAGCTACTGGTGGAACGGAGACAAAT
ATCTGGGGCCTGCAGTTCTATGCAGGCCTATCGCTGGATGATTGACTCCAGAGATGACTTCACAGAGGAGCGCC
TGGCCAAGCTGCAGGACCCATTCTCTATACCGCTGCCACACC ATGA ACTGCACAAGGACCTGTCCTAAGG
GTCTGAATCCAGGGAAAGCTATTG CAGAGATCAAGAAAATGATGGCAACCTATAAGGAGAAGAAA GCTCAGTT**T**
A**C**TGTTCCATGCTAACATGATT TATAACCAGCTCAGAGCTGAACATAATTATCTAATTGAGTTCCCTT
AAAGATCTGGTTTCCATGAATACAGCATGTATAAAAAATTAAAGA

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FIGURE 562

MAAVVALSLRRRLPATLGGACLQASRGAQTAATAPRIKKFAIYRWDPDKAGDKPHMQTYKVDLNKGPMVLDA
LIKIKNEVDSTLTFRREGICGSCAMNINGNTLACTRIDTNLNKVKSKIYPLPHMYVIKDLVPDLSNFYAQY
KSIEPYLKKKDESQEGKQQYLQSIEEREKLDGLYECILCACCSCTCPYSWWNGDKYLGPAVLMQAYRWMIDSRDD
FTEERLAKLQDPFLYRCHTIMNCTRTCPKGLNPGKAIAEIKKMMATYKEKKASV

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FIGURE 563

CCAGAGCCGCAGCCGAGCCGCCGCTACAGTCCGGGCCGGCTCCACCGCGCATCCTGCTCCACTCTGGCGACCG
CCCCCGGGTCCCCGCCGCCGGCGCCGCCATGGCGAGGAGGACTACTATCTGGAGCTGTGCGAGCGGC
CGGTGCAGTCGAGAAGGCGAACCCCTGTCAACTGGTCTTCGATGAGGCCAACAGCAGGTTTGCTGTC
GATCTGGTGGAGCTACTGGGTGGTAGTTAAAGGCCAGATGATAGGAATCCCCTCATTAGAATGGATGACA
AAGGAGAAGTGAAGTGCATTAAGTTTCTTAGAAAATAAGATATTGGCTGTCAGAGGACTCAAAGACTGTGG
ATTTTGTAATTTATCCCTGATAATTCCAGCTGGAATACACACAGGAGTGAAGACTAAGAATGCCAACATT
TAGGATTCTGCTGGACTAGTCAACTGAAATTGTCATACAGATCAAGGAATCGAATTACCAGGTATTAC
CAGAGAACGGAGTCTGAAACTCTGAAGAGGCCACAATCTCAATGTGAATTGGTACATGTACTGCCCGAGCGC
CCGTGATCTGCTGTCTACCACGGTCTGGAGAATGTCCTGCAGCCTTCACTTACGGCTGGACTATGTCGA
AGCTGCCAACGTTGAGATTGAATTACAGCTGCCCTAAGTCAACTAAACCCAGCCTTCCGAAAGAGACATCG
CAATGGCTACCATATACGGGAGCTGTATGTTCTTCTGAGGCATCATTCTGGACCTCCAACAGCACAGGAG
CGGAGGTGGCCTCTATCATCTACACAGAGAAGGTGCCTGAAAAAGATGCACATATTGAAGTTAAATAGGACGG
GAAAGTTGCCCTGAACGTGGTGGACAACCTGGTAGTCGTGCATCATCAGGATACAGAGACATCGTAATATTG
ATATCAAGTTACGGGGAGAGTTGACGGCTCGTTACCTCCACCACCCCGTGCTTCTGCTGATCGATCCAGC
CCTATCAGATCCCCATCACAGGTCTGCTGCCGTGACCAGCCAGTCTCTGTTCACTGAACTCTATCTTCA
CTTGGATTGTCTTCAACCTGACATCATTATCAGCGCAAGGTTACCTCTGGAACCTCCAAGTGAACATTG
AGCCCATAGTAAATCTTACCAAGACAAAGGAAGACTCATGGACTTCTCCTCCAGAGAAAGGAATGCAAGATGG
TCATCCTGCTGTCTGTTACAGATGTTAAGTGAGTCAGACAGAGCATCGCTGCCGTGATAGCCACTGTTTG
ATAAAACTCAACCAGTAGTAAAAAGTACCTGGATGCCGAGCAGGTTATGCGATGGCGTGGAGCAGGGCAGA
GCCGAAGCAGCCCGCTCCTCAAGAGGCCGGTGCAGGCCAGGCGGTGCTGGACCAAGTCAGATGTGTACACCCATG
TCCTGTCAGCCTCGTGGAAAAGAAGGAGATGCCTCATAAATTTGTGATAGCCGTGCTGATGGAATACATTGTT
CTCTTAACCAAGTTCACTGAGTACAGCATTACCTACATGAACTGTTATCAAAACCTGTCCAGCACACC
TCTTTATATGCTGCATCAGTTCTGCACTACAGCTCAGCAGTACAGCATTACCTACATGAACTGTTATCAAAACCTGT
CCCTAGAGAGTTCTATCCTCGTCTCAGCTATCTCTGGACATGCTGAAGCGACTTCAACAGCAAATGATG
AAATAGTAGAAGTTCTCCTTCAAACACCAAGTGTAGCTGCCTTAAGGTTATCCGGGGCATGGTGGCCATG
ACAACATTCTGCACGAAAATTAGATGCTGCAAAGCAGACTGAAGACAACATGTTCTATACAATATTCC
GCTTTTGAACAGCGAACACCAGCGTTGCGAGGGAGCCCAATTCAACACCAGGGAACACTGTGAAGAACATG
TTGCTTTTCAACAGATTTGGAGACCAAGCTTAATGAGGCCTACAACATTCTTGAAATCACTGCTGTTT
TTTATATAAAATGTGTACAAAGTTAATTATTGCATTAATAAGCTCTTAAACTAT

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FIGURE 564

MGEEDYYLELCERPVQFEKANPVNCVFDEANKQVFAVRSGGATGVVKGPDDRNPISFRMDDKGEVKCIKFSL
NKILAVQRTSKTVDFCNFIPDNSQLEYTQECKTKNANILGFCWTSSTEIVFITDQGIEFYQVLPEKRSLKLLKSH
NLNVNWYMYCPERAVILLSTTVLENVLQPFHFRAGTMSKLKPFEIELPAAPKSTKPSLSERDIAMATIYGQLYVL
FLRHHSRTSNSTGAEVVLYHLPREGACKMHILKLNRTGKFALNVVDNLVVHHQDTETSVIFDIKLGEFDGSV
TFHHPVLPARSIQPYQIPITGPAAVTQSPPVPCLYSSSWIVFQPDIIISASQGYLWNLQVKLEPIVNLLPDKGR
LMDFLLQRKECKMVLISVCSQMLSESDRASLPVIATVFDKLNHEYKKYLDAEQSYAMAVEAGQSRSSPLLKR PVR
TQAVLDQSDVYTHVLSAFVEKKE MPHKFVIAVLMEYIRSLNQFQIAVQHYLHELVIKTLVQHNLFYMLHQFLQYH
VLSDSKPLACLLLSLESFYPPAHQLSLDMLKRLSTANDEIVEVLLSKHQVLAALRFIRGIGGHNDNISARKFLDAA
KQTEDNMLFYTIFFRFFEQRNQRLRGSPNFTPGEHCEEHV AFFKQIFGDQALMRPTTF

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FIGURE 565

CCTCACTGACTATAAAAGAATAGAGAAGGAAGGGCTTCAGTGACCGGCTGCCTGGCTGACTTACAGCAGTCAGAC
TCTGACAGGATCATGGCTATGATGGAGGTCCAGGGGGGACCCAGCCTGGGACAGACCTGCGTGCTGATCGTGATC
TTCACAGTGCTCCTGCAGTCAGTCAGTCAGTGTTCTAAAGAAGATGACAGTTATTGGGACCCAATGACGAAGAG
GACAAGTACTCCAAAAGTGGCATTGCTGTTCTAAAGAAGATGACAGTTATTGGGACCCAATGACGAAGAG
AGTATGAACAGCCCCGCTGGCAAGTCAGTGGCAACTCCGTAGCTCGTTAGAAAGATGATTTGAGAACCTCT
GAGGAAACCATTCTACAGTTCAAGAAAAGCAACAAAATATTCTCCCCTAGTGAGAGAAAGAGGTCCAGAGA
GTAGCAGCTCACATAACTGGGACCAGAGGAAGCAACACATTGTCTCTCAAACCTCAAGAAATGAAAAGGCT
CTGGGCCGAAAATAAACTCCTGGGAATCATCAAGGAGTGGGCATTCTGAGCAACTGCACTTGAGGAAT
GGTGAACGGTCATCCATGAAAAAGGGTTTACTACATCTATTCCAAACATACTTCAAGGAGTGGCATTCTGAGCAACTGCACTTGAGGAAT
AAAGAAAACACAAAAGAACGACAACAAATGGCCAATATATTACAAATAACACAAGTTATCCTGACCCATATATTG
TTGATGAAAAGTGTAGAAATAGTTGGTCTAAAGATGCAGAATATGGACTCTATTCCATCTATCAAGGGGG
ATATTGAGCTTAAGGAAAATGACAGAATTGTTCTGTAACAAATGAGCACTGATAGACATGGACCATGAA
GCCAGTTTTGCGGGCTTTAGTTGGCTAACTGACCTGGAAAGAAAAGCAATAACCTCAAAGTGA
CTTACAGGATGATACTATGAAGATGTTCAAAAATCTGACCAAAACAAACAGAAAACAGAAAACAA
AAAAACCTCTATGCAATCTGAGTAGAGCAGCCACAACCAAAAAATTCTACACACACTGTTCTGAAAGTGA
CTACCTTATCCAAGAAAATGAAATTGCTGAAAGATCTTCAGGACTCTACCTCATATCAGTTGCTAGCAGAAATC
TAGAAGACTGTCAGCTCCAACATTAATGCAATGGTAACATCTCTGTCTTATAATCTACTCCTGTAAAGA
CTGTTAGAAGAAAGCGCAACATCCATCTCAAGTAGTGTATCACAGTAGTAGCCTCCAGGTTCTTAAGGGAC
AACATCCTTAAGTCAAAAGAGAGAAGAGGCACCAACTAAAGATCGCAGTTGCCTGGTGCAGTGGCTCACACCTG
TAATCCCAACATTGGGAACCCAAGGGTAGATCAGGAGATCAAGAGATCAAGACCATAGTGACCAACATAG
TGAAACCCCATCTACTGAAAGTGCAAAATTAGCTGGGTGTTGGCACATGCCCTGTAGTCCCAGCTACTTGA
GAGGCTGAGGCAGGAGAATCGTTGAACCCGGGAGGCAGAGGTTGCAGTGTGGTGA
GAGTCAAGTACGCCACTACACTCC
AGCCTGGCGACAGAGCGAGACTTGGTTCAAAAAAAAAAACTTCAGTAAGTACGTGTTATTTTT
TCAATAAAATTCTATTACAGTATGTCAAAAAAAAAAAAAAA

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FIGURE 566

MAMMEVQGGPSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQM QDKYSKSGIACFLKEDDSYWDPNDEESMNS
PCWQVKWQLRQLVRKMILRTSEETISTVQEKKQQNISPLVRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRK
INSWESSRSGHSFLSNLHLRNGELVIHEKGFYIYIYSQTYFRFQEEIKENTKNDKQM VQYIYKYTSYPDPILLMKS
ARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG

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FIGURE 567

GGGGAGAGCGGGTGTGAAGGCTCCGGACCGGCAGTAGGAGCAGGGCGGGTCCGTGACCCCTCCGGCTGCTCGGAGTGAACACCATGATCCCTTGAGAAGCAGGCAGCGGCCGCACCTCAGGCTCGGGCCGGGCAGGCCGGGTCTGAGCAGGGCGTGCAGGCCCTCCAGGACGGCTACAGCCTGCCCCAGGCCGCAGGGCTGCTGACAGAGATAACGCCGTGGTGCAGGCCCTCCAGGACGGCTACAGCCTGTCGCCCCGGCCGGAGCTGGCAGGGGAAATTGCACTGGTGAAGAAAATGTATAAAGAAAGATTCTGGAAAGAAATTGCTGCAAGTGCACAGAGATAACGCCGTGGTGCAGACAGAGAAGAACCTTAAAGAAAAAATTGCTGCAAAGACTCATGAGAAAAGAAGAAAAGCCAAGATTGTCGGATGGAATAATTGAGATTGCTGTAATTGACTAGCACAAGACAATTCTGGTCATTAATTACATGAAGTTATGAGACTGCATCAGAAATGATCTTATGCTGGAATATGCTGCTGGGGTGAATCTTGACCACTGGTGAAGATTGCTGCAAGACAGAGAAGAACCTTAAAGAAAAAATTGATCTGCAAAGACTTATGCAACAGATACTGGAGCATTGGAGTGTAAACATATGCTCATGCTTACAGGAATATCACCTTCTAGGCAATGATAAACAAAGAACATTCTAAACATCTCACAGATGAATTAAAGTTAAGTTATTCTGAGGAAGAAATTGATGTTGACAGTGAAGAGCTCCGAGAAATTATGGTACCCCTGAATATGTTGCTCTGAAATTCTTAGTTATGATCTTCTAGGCAATGCTATAAGCAGACAGATACTGGAGCATTGGAGTGTAAACATATGCTCATGCTTACAGGAATATCACCTTCTAGGCAATGATAAACAAAGAACATTCTAAACATCTCACAGATGAATTAAAGTTAAGTTAAGAAACCTGAAGATCGAGCCACTGCTGAAGAAATGCTAAAGCAGCCCTGGTGAACACAGAGCAGTATTCAAGAGCCTCTTCAGGATGGAAAAGGCACTAGAAGAAGCAAATGCCCTCAAGAAGGTCAATTGTCGCTGAAATTAACTCGATAACGACAAATCAGAAACCAGGAATCCATTGTAACCGAAGAGTTAATTGTTACTTCATATACTCTAGGACAATGCAGACAGTCTGAAAAAGAGAAAATGGAGCAAAGGCCATTCCAAACGATTAAATTGAGGAACCTTGTACAAGAAATTCCAGGAGAATTATCTACTTGAGCAATATTCCCTTAAAGACTTCAAGATTCTACACTGAAAATGTTAATATTATTATGGACCTCTGGCCAATGGTACATGACTGGAAGTGGATAACCGAGTACTACCTACACAAACAAAAATAACTTGTCAAATTGTGGAGTTAGGTGGAAGCCAGATTAAAAGTTGCAACCAGGATATTAAACAGGTACAGTTACCCGTTCAATTGTATTAAAGAAGGGAGATGTTGGCACCTTGAATTCTACATCCTGTTCTCCAGAATGAGAATTGTTGACAAGATATTGTGACATTCTCTTAAATCCAAAGTAAAAGTGCCTAAACTACATTCTGTAAATCTCTTGCATATTCTATGTGTATCTATCTGCATAATGTTGTTAATGCTACTAAAATTGCTACTTTTCACTTGGATTGTTTTGCCAAAATTAGTCTAAACAGACATCTAAATTTCGAGACTTAGAATAACATTCACTAAAGTTGATAATGCTTTTAAATATTCTACTGTTTATAGTGAATTGGTTCTGTTGTTTGCCTAAACTAGTAACATATCAGTGAACACCTCTGGTTACCTGGTCAGTCTTGAGCTGCTCCCTCATCACACCACACTCACATGCTCATGTTCTCTCACACTCTACACCCCTGCCACTTCTGGCACCTCCCCCATGTTGTCATTAAATTGGCCACTTGTAGGTGATCTGATCAACACTCTGGTTACCTGGTCAGTCTTGAGCTGCTCCCTCATCACACCACACTCACATGCTCATGTTCTCTCACACTCTACACCCCTGCCACTTCTGGCACCTCCCCCATGTTGTCATTAAATTGGCCACTTGTAGTGAACAGTTGACTTGTATCTATGCCAACAGTGCAGTAAAGTCAAATTAAATATGGAAATGTAAGAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTACACACAAAAGGCTCAGTGCATTAATATATTGCTATC

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FIGURE 568

MIPLEKPGSGGSSPGATSGSGRAGRGLSGPCRPPPPQARGLLTEIRAVVRTEPFQDGYSLCPGRELGRGKFAVV
RKCIIKKDSGKEFAAKFMRKRRKGQDCRMEIIHEIAVLELAQDNPWVINLHEVYETASEMILVLEYAAGGEIFDQC
VADREEAFKEKDVKQRLMRQILEGVHFLHTRDVHVLDLKPNILLTSESPLGDIKIVDFGLSRILKNSEELREIMG
TPEYVAPEILSYDPISMATDMWSIGVLTYVMLTGISPFLGNDKQETFLNISQMNLSSYSEEFDVLSAVDFIRT
LLVKKPEDRATAEECLKHPWLTQSSIQEFSFRMEKALEEANALQEGHSVPEINSDTDKSETESIVTEELIVVTS
YTLGQCRQSEKEKMEQKAISKRFKFEEPLLQEIPGEFIY

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FIGURE 569A

CACGCCCGCGCTGCTGGTCCGCCAGACACGCCGCCGCCAGGAAAGTCTACAGTTGGTACCCAGGACTC
GCTGGTCAGGAAAGCCCTGCAGGACATGAGTGTAGGCCGACGCCCTGGCCCTGGCAGCTGGAGGTGGCTGG
GGCTGCTTTGCCCTTGCCAGAGACAGCTCCAAGTGGACCTCTCCAACGGGCCATCCACAGTCCTCCTCC
CCTAGTGTCTGGGAAGACAGGCAGCAGTCAGTGGACTCCCCGTTCTGGAGCTGTGGCAGTCCAAGGCAGTGTCCAT
CAGGGAGCAGCTGGACTCGGGACCGGCCAACGACTCCTATTGCTACAACACTGGCCAAAACAGCACCGTGCT
CCAGGGGGTCACCTTGCTGGCATCCCCACTGTCTGCTCATAGACGTCACTGCTTCTGGTCTTAATCTGGT
GTTTCTATTATAAGAAGAAGATTCTGGACTATGCCGATTGCCCTGGTGTCAAAGCAGACAGCGAGTCCAG
ATTCAGAGATTGTCACTGACTCCTCCTCAGGTCAACAAGACTTGTAAAATGAGCTGGGATGCTGTCCCTGGCT
GAUTGCCATCTTCCGTCTGCATGATGACCAGATCTGGAATGGTGTGGGAGGACGCCATCCACTACCTGTCTT
CCAGAGGCACATCATCTCTGTTGGTGGTCAGCTTTGTCCCTGTGTCACTCTGCCGTCAACCTCTC
AGGGGATTGCTGGACAAAGACCGTATAGTTGGAGGACAACAATAGCAAACCTACAGACTGACAATGACCT
CCTTGGCTGCACACCCTTGCTGTCATTACCTCTCACTGTGGTTCATGCCGACCACACTCAGTC
CATTAAGTACAAGAGGAGAACCTGGTGGCGACCCCTGTCATCACAGGACTCCCCAGAGATGCCAGGAAGGA
GAUTGTGGAGGCCACTCCGGGACGCGTATCCCACGTGTGAGGTGGTGTGTCAGCTGTCTACAACGTGGC
CAAACGTATCACCTGTGCAAGGAGAAAAAGAAGACTGAGAAGAGCCTGACCTATTACACAAACCTGAGGTGAA
GACAGGCCAGCGGACCCATCAACCCCAAGCCCTGTCAGTTGCTGTCATGGCCTACATCCTGAAAGATT
CAATGCCGCAAGTGTCAAGCCTCAGTGCAGGGTGGCCAGCTTGCTGTCATGGCAGTGGCTGAGTGTGAGT
GGAAGACGCCATCTTACTACACCGATGAAGGACAGGCTGCTGGAGGAGTACAGAGGAAGAACGCCACGT
CCAGGACCAGCCCTGGGAATGCCCTCGTCACCTCCAGGAGAAGTCCATGCCACCTACATCCTGAAAGATT
CAATGCCGCAAGTGTCAAGCCTCAGTGCAGGGTGGCCAGCTTGCTGTCATGGCAGTGGCTGAGTGTGAGT
CTCCAAAGTGGACAGTCACCTTGCTGTCACCTGAGGACATCTGCTGGAAGAACCTCTATCCAGGGCTCCG
CTGGTGGCTACAGTGGCTGGCATCAACTCACCTCTTCTGGGCTATTGTCTACTACTACACTGCTGGAGTCTCA
CCTGTCCACCATGGACAAGTTAATGTCACCAACCCATCCATGCCGTAATAACCGATCATGCCAGTTCTT
CCCCACCCCTCTGCTCTGGCTCTCTGGCCCTGCTCCCTCCATTGTCTACTACTACACTGCTGGAGTCTCA
CTGGACCAAGTCGGGGAAACAGATCATGATGACCAAAAGTCTACATATTCTGATCTTGTGCTGATCT
GCCCTCCCTGGGTCTCACCAAGTCTAGATTTTCTCCGGTGGCTTTGACAAAACCTCCTCGGAGGCTCCAT
CAGGTTGGAGTGCCTCTGCCGCTGACCAAGGGTGCCTCTTGTAACATATGTCATGCCCTGGCCTTCATCGG
CAATGGCATGGAGCTGCTGCCGCTGCCAGGTCTCATCCTCTATACCTCCGATGATCATGCCAAGACGGCTGC
TGACCGCAGGAATGTCAAGCAGAACCCAGGCTCCAGTACGAGTTGGAGGCCATGTATGCATGGATGCTGT
CTTCACTGTCATCGGCTACAGCATCACTGTCCTCATGCCGCTATTGGCCTCATCTACATCCTGCTCAA
GCACATGGTGGACCGGCACACCTCTACCTCGTCTACCTCCAGCCAAGCTGGAGAAGGGGATCCACTTGGC
TGTGAACCAAGGCCTGGCAGCCCCCATCCTGTGCTCTCTGGCTCTACTCTTCTCTGGCCTGCGCTGGGTAT
GAAGGCCCCGCCACTCTGTTCACCTCTGGTGTGCTCACCATCTGGTGTGCTGACACACTGCT
TGGATGCTTCAGCACCTCAGCCCTGTAACACTACAAACAGAAGAGCCTGCAAGTGACAAAGGAAGTGAGGAGA
GGCCCACATGCCCTGGGCTCACACCCATGTCCTCGGATTCTGAACGGCTGGCCTGGAGAGGACAGCACT
GTCTCCGCAGCAGCAGCAGCACCTATGGGCCATCCACAACATCAGCGGGACTATCCCTGGACAGTGCT
GGCGCAGAGGCCACGGCAGTGTGGCTGCTGCCAGGGCCTGGGCTCAGTGGCTGAGCTGCTCTGAAAGA
ACAACCAAGAATGCCCTGGGCTCAGGCCCTGGTGTGAGTGGGAATGCCCTGGACTGCCAGCTGAGCTATCAG
GTGCCCATCTTCTGGTCCCAGCAGTGGTGAGGAGAGCACAGGCAGGCCCTGCCCTCCCTGCTCACCCAGTT
TCCCCTCCGGCACAGCTCCAGCTGCAGCTGGGTGACATCCCCAGTGGTTGTCGCCAAGACCATGTGGT
GACTTTGCCCTGGGAAACTGATGAGTCGGGAGAATATATGGAGAGAGATGTAACAAGGGAAAGGCCCTC
CCTTCTGAGCACACACACAACCGATAACCAAAGAGATGTCAGTCCAGGTCTGAGGTCCGCTGGCAGTCC
CCCTGCTCCATGCCAGTCCCTCCCAGGCCAGCAGTCCTCCAGGCTACATCCAGGAGTAAGCTATGGGAACA
GGTGGAGGTGGCCAGTGTCTGCCAGCTGTGACACATCTGTATCCGCTAGAGTTGTGTTTGTAT
CATGTTGTCAAGGGACGCTAGCTGGTCAAGGGTACCCCATAGCAGGCAGGGACAAGGACCACTCATATA
ATTGGACACAGTTAAGATCCAGCCTCTCACCTCTCAGGGCTGAGTGCATGAGTCTGCACTCCAGGCAGGC
TCTGTGCACTACCCCCCTCCGTCTGCTCCCTCCAAGGTGTGGGGTGGCAGTGCTCAGGGCCTCCCTGGAG
CCAAAGGACAGCATGGTGGCACAGAGGAAGGGTACCTGGGCTGGGTGCAGGGCCTCCACTGCCCTGAGCT
GTGGCTGGCAGGAAGGAGGGCAGCCATCCCTCTGGGATTCTGGGAATGGGATGCAACTT

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FIGURE 569B

AAGACTTCTGCCTGAGAAGCCTCCCTCCCTGCTGCCTCCAGGGGGCACCAAGGCACAAGCCTGTGCAGTAGGGCG
GGATGGGGGTGTGGAAGAGCAGGTCCAGGCTCCTAGCACAACTGGCCTGGGCCTTGGCACCTCTGTAGGCCCTG
CCTGTGCCTGTCCGCTGGCCTGGGGGCTGGGCTTATCTGGCCTCTCACTCAGGGACTCTTGAACGCTGAC
TTGCCCGCGAGCGGTGCCAGTGCTGCCTCTGCTCCAAGCTGCCCTGCGCTGGAGGGTGGGGCGGTGCCA
TTGGTCTGGTGCAGCATAGCCCTGCCAGTGGCCTCATCCCCAGCAGGCCTCCGTGCCCTGCCAGCAAGGAGG
GCCGGCCAGCTGCTTGACAGGGGCCCATGTGGGTAGCGCACGCTCATGTCAGTCCAGGCCGCT
TTAGAGTAAAGTCGTTATCATC

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FIGURE 570

MMDSPFILELWQSKAVSIREQLGLGDRPNDSYCYNASKNSTVLQGVTFGGIPTVLLIDVSCFLFLILVFSIIRRF
WDYGRIALVSEADSESFRQRLSSTSSSGQQDFENELGCCPWLTAFRILHDDQILEWCGEDAIHYLSFQRHIIFLL
VVVSFLSLCVILPVNLSGDLDKDPYSFGRTTIANLQTDNDLLWLHTIFAVIYLFTVGFMRHHTQSISIKYKEENL
VRRTLFIITGLPRDARKETVESHRDAYPTCEVVDVQLCYNVAKLIYLCKEKKKTEKSILTYTNLQVKTGQRTLIN
PKPCGQFCCEVLGCEWEDAISYYTRMKDRLLERITEERHVQDQPLGMAFVTFQEKSMMATYILKDFNACKCQSL
QCKGEQPQPSHSRELYTSKWTVTFAADPEDICWKNLSIQGLRWWLQWLGINFTLFLGLFFLTTPSIILSTMDKFN
VTKPIHALNNPIISQFFPTLLLWSFSALLPSIVYYSTLLESHWTKSGENQIMMTKVYIFLIFMVLILPSLGLTLSL
DFFFWRWLFDKTSSEASIRLECVFLPDQGAFFVNYYVIASAFIIGNGMELLRLPGLILYTFRMIMAKTAADRRNVKQN
QAFQYEFGAMYAWMLCVFTVIVAYSITCPIIAPFGLIYILLKHMVDRHNLYFVYLPAKLEKGIGHFAAVNQALAAP
ILCLFWLYFFSFLRLGMKAPATLFTFLVLLTILVCLAHTCFGCFKHLSPNYKEEPASDKGSEAEAHMPPPF
PYVPRILNGLASERTALSPQQQQQTYGAIHNISGTIPGQCLAQSATGSVAAAPQEA

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FIGURE 571A

CGCCCCCGCCTCTGAGCTCCCTCCC**ATG**GCGGCCCTAGTGTGGAGGACGGGTCGGTCTGCAGGGCCAGCCCTTG
GGGGGCCGCGTGTGACTGCCGGGAAGTGGTGTTCAAACCGGCATGGTCGGCTACCCCGAGGCCCTCACTG
ATCCCTCCTACAAGGCACAGATCTTAGTGCTCACCTATCCTGTATGGCAACTATGGCATCCCCCAGATGAAA
TGGATGAGTCGGTCTGCAAGTGGTTGAATCTCGGGCATCCACGTAGCAGCACTGGTAGTGGAGAGTGCT
GTCCTACTCCCAGCCACTGGAGTGCCACCCGCACCTGCATGAGTGGCTGCAGCAGCATGGCATCCCTGGCTTGC
AAGGAGTAGACACTCGGGAGCTGACCAAGAAGTTGCGGGACAGGGTCTCTGCTGGGAAGCTGGTCCAGAATG
GAACAGAACCTCATCCCTGCCATTCTGGACCCAATGCCGCCCTGGTACCAAGGGTCTCCATTAAGACTC
CACGGGTATTCAATAACAGGGGTGCCCTCGGATCCTTGCTTGGACTGTGGCCTCAAGTATAATCAGATCCGAT
GCCTCTGCCAGCGTGGGCTGAGGTACTGTGGTACCTGGGACCATGCACTAGACAGCCAAGAGTATGAGGTC
TCTCTTAAGTAATGGGCTGGTGACCTGCCTCTATCCCAGTGTGATCCACACTGAGCCGTGTTTATCTG
AGCCTAATCCCGACCTGTCTTGGATCTGCCTGGACACCAGTATTGGCTTAGCCATTGGGCAAGACTT
ACAAGATGAGATATGGGAACCGAGGCCATAACCAGCCCTGCTTGTGGTGGCTCTGGCGTGTCTTGACAT
CCCAGAACCATGGTTTGCTGTGGAGACAGACTCACTGCCAGCAGACTGGCTCCCTCTTACCAACGCCAATG
ATGGTTCCAATGAAGGCATTGTGACAAACAGCTTGCTTCTTCAGTGTCCAGTTCCACCCAGAGCACCAAGCTG
GCCCTTCAGATATGGAACTGTTCTGATATCTTCTGAAACTGTGAAAGAGGCCACAGCTGGAAACCTGGGG
GCCAGACAGTTAGAGAGCGGCTGACTGAGGCCCTGTCCCCCTGGGATTCCCACCCGGCTCTGGACTTCCAC
CACCACGAAAGGTTCTGATCCTGGCTCAGGGGCCCTCCATTGCCAAGCTGGAGAATTGACTACTCGGGCT
CTCAGGCAATTAAAGGCCCTGAAGGAGGAAACATCCAGACGTTGCTGATCAACCCAAATTGCCACAGTGCAGA
CCTCCCAGGGCTGGCGACAAGGTCTATTCTCCCATAACACCTCATTATGTAACCCAGGTGATACGTAATG
AACGCCCGATGGTGTACTGACTTTGGGGCCAGACTGCTCTGAACGTGTTGGAGCTGACCAAGGCCG
GGGTGCTGGCTCGGTATGGGTCCGGGTCTGGGACACCCAGTGGAGACATTGAGCTGACCGAGGATCGACGGG
CCTTGCTGCCAGAATGGCAGAGATCGGAGAGCATGTCAGGCCCTGGGAGGCAGCAAATTCTTGAACAGGCC
AGGCAGCCGCTGAACGGCTGGGTACCCCTGTGCTAGTGCAGCAGCCTTGCCTGGGCTGGCTCTGGCT
TTGCCTCTAACAGGGAGGAGCTCTGCTCTGTCAGGCCCTGGGAGCTTGCCTACCCAGCAAGTGTAGTAC
AGTCTCTGAAGGGATGGAAGGAGATTGAGTACGAGGTGGTGAGAGACGCCCTATGCAACTGTGTCACGGTGTGTA
ACATGGAGAACTGGACCCACTGGCATCCACACTGGTAGTCCATAGTGGTGGCCCTAGCCAGACACTGAATG
ACAGGGAGTATCAGCTCTGAGGCAGACAGCTATCAAGGTGACCCAGCACCTGGGAATTGTTGGGAGTGCAATG
TGCAGTATGCCTGAACCTGAGTCTGAGCAGTATTACATATTGAAGTGAATGCCAGGCTCTCGCAGCTCTG
CCCTGGCAGTAAGGCCACAGGTTATCCACTGGCTTATGTGCAGCCAAGCTAGCATTGGCATTGGCATCCCTTGCTG
AGCTCAGGAACTCTGTGACAGGGGTACAGCAGCCTTGAACCCAGCGTGGATTATTGTGTGGTGAAGATTCTC
GATGGGACCTTAGCAAGTCTGCGAGTCAGCACAAAGATTGGGAGCTGCATGAAGAGCGTGGTGAAGTCATGG
GCATTGGCGTTCATTGAGGAGGCCCTCCAGAAGGCCCTGCGCATGGGGATGAGAACTGTGTGGCTTGATC
ACACAGTGAACCAAGTCAGCGATATGGAGTTGGAGACTCCAACAGATAAGCGGATTGGTGGCAGCTGCTT
TGTGGCTGGTATTCACTGGACCGCCTGTATGAGCTCACACGCATCGACCGCTGGTCTGCACCGAATGAAGC
GTATCATGCACATGCCAGCTGCTAGAACAAACCCGTGGACAGCCTTGCCTGCCAGACCTGCTGCAACAGGCC
AGTGTCTGGCTCTCAGACAAACAGATTGCCCTGAGCTTGTGAGCACAGAGCTGGCTTGCAGCTGCGT
AGGAACAGGGGATCTGTCAGCAGTGAAACAGATTGACACAGATTGAGCTGAGCTGGCCAGGCCAGACAAATTAC
TATACCTAACGTATTGGGCACCACCCATGACCTCACCTTCAACACCTCATGTCCTAGTCCTGGCTCTGGCG
TCTACCGTATTGGCTCTAGCGTTGAATTGACTGGTGTGCTGTAGGCTGCATCCAGCAGCTCCGAAAGATGGGAT
ATAAGACCATCATGGTAACATAAACCCAGAGACAGTCAGCACCGACTATGACATGTGTGATCGACTCTACTTG
ATGAGATCTTTGAGGTGGTATGGACATCTATGAGCTCGAGAACCCCTGAAGGTGTGATCCTATCCATGGGTG
GACAGCTGCCAACAACATGCCATGGCGTTGCATCGGCAGCAGTGCGGGTGTGGCACCTCCCTGAAGCCA
TTGACTCGGCTGAGAACCGTTCAAGTTCCCGCTCTTGACACCCATTGGTATGCCAGCCTCAGTGGAGGG
AGCTCAGTGACCTCGAGTCTGCTGCCAATTCTGCCAGACCGTGGGGTACCCCTGTGTGGTGCAGGCCCT
TGCTGAGCGGTGCTGCTATGAATGTGGCTACAGGATGGAGACCTGGAGCGCTTCTGAGCAGCGCAGGCC
TCTCCAAGAGCATCCCGTGGTACCTCAAGTTCATCCAGGAGGCTAAGGAGATTGACGTGGATGCCGTGGCCT
CTGATGGTGTGGTGGCAGCCATGCCATCTGAGCATGTGGAGAATGACAGGTGTGCATTAGGTGATGCGACGC
TGGTGACCCCCCACAAGATACACTGCCAAAACCTGGAGCGGATCAAAGCATTGTCATGCTGTGGCCAGG

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FIGURE 571B

AGCTACAGGTACAGGACCCTCAATCTGCAGCTCATTGCCAAGGATGACCAGCTGAAAGTTATTGAATGCAACG
TACGTGTCCTCGCTCCCTCGTTCCAAGACACTGGGTGTGGACCTAGTAGCCTGGCCACGCCGGTCA
TCATGGGGAAGAAGTGGAACCTGTGGGCTAATGACTGGTCTGGAGTCGTGGAGTAAAGGTGCCTCAGTCT
CCTCTCCGCTGGCGGGTCTGACGTGGTGGGATGGAAATGACCAAGTACTGGGAGGTGGCCGGCTTG
GGGAGAGCCGCTGTGAGGCATACTCAAGGCCATGCTAAGCACTGGCTTAAGATCCCCAAGAAGAATATCCTG
TGACCATTGGCAGCTATAAGAACAAAAGCGAGCTGCTCCAACTGTGCGGCTACTGGAGAGGCTGGCTACAGCC
TCTATGCCAGTCTCGGCACAGCTGACTCTACACTGAGCATGGCGTAAGGTAACAGCTGTGGACTGGCAGTTG
AGGAGGCTGTGGATGGTGGAGTGCACACAGCGGAGCATCCTGGAGCAGCTAGCTGAGAAAAACTTGAGCTGG
TGATTAACCTGTCAATGCGTGGAGCTGGGGCCGGCTCTCTTGTACCAAGGGTACCGCACCCGAC
GCTTGGCCGCTGACTCTCCGTGCCCTAATCATGATATCAAGTGCACCAAACCTTGTGGAGGCCCTAGGCC
AGATCGGGCAGCCCCTCTTGAAGGTGCATGTTGACTGTATGACCTCCAAAAGCTGTGCGACTGCCGGGAT
TGATTGATGTCCATGTGCACCTGCGGGAACCAAGGTGGGACACATAAGGAGGACTTGCTTCAGGCACAGCCGCTG
CCCTGGCTGGGGTATCACCAGGTGTGCCCCATGCCTAATACCCGGCCCCCATCATTGACGCCCTGCTCTGG
CCCTGGGCCAGAAGCTGGCAGAGGCTGGCGCCGGTGCAGCTTGCCTATTCCCTGGGCTCGTCTGAAAATG
CAGGAACCTTGGGACCGTGGCCGGGCTGCAGCGGGCTGAAGCTTACCTCAATGAGACCTCTGAGCTGC
GGCTGGACAGCGTGGCCAGTGGATGGAGCATTGAGACATGCCCTCCACCTCCACCTGTGGCTACGCAG
AGCAGCAAACCGTGGCTGTCCTCATGGTGGCTCAGCTCACTCAGCGCTCAGTGCACATATGTCACGTGGCAC
GGAAGGAGGAGATCCTGCTAATTAAAGTGCACAGGGCTTGCAGTGACCTGCGAGGTGGCTCCCCACC
ACCTGTTCTAAGCCATGATGACCTGGAGCGCCTGGGCTGGGAAGGGGAGGTCCGGCCTGAGCTGGCTCCC
GCCAGGATGTGGAGGCCCTGTGGGAGAACATGGCTGTCTGACTGCTTGCCTCAGACCATGCTCCCCATACCT
TGGAGGAGAAGTGTGGGCCAGGCCCCACCTGGTTCCAGGGTTAGAGACCATGCTGCCACTACTCTGACGG
CTGTAAGCGAGGGCGGCTCACCTGGACGACTGCTGCAGCGATTGACCAATCCTCGGCGATCTTCACC
TGCCCCCGCAGGAGGACACCTATGTGGAGGTGGATCTGGAGCATGAGTGGACAATTCCAGCCACATGCCCTCT
CCAAGGCCACTGGACACCTTGAAGGGCAGAAAGTGAAGGGCACCCTGGCCGTGTTGCTGCGAGGGGAGG
TTGCCTATATGATGGCAGGTTCTGGTACCCCCGGCTATGGACAGGATGTACGGAAGTGGCACAGGGGCTG
TTCCTCAGCTCCACCCCTGCCCCACTAGTGAGATGACCAACCTGAAAGACCCCGCCGGCATCC
CAGGGCTCCTGATGCCGCTTCCATCTGCCGCCGAATCCATCGAGCCTCCGACCCAGGTTGCCAGCTGAGG
AGCAAAGGAGAAGTCTCGGAAGGTAGCCGAGCCAGAGCTGATGGGAACCCCTGATGGCACCTGCTACCC
CACCAACAGTACCGAGACAGGCATCTCCCAAGAACCTGGGACCCCTGGCTTGCTGCACCCAGACCTCACCC
TGCTGCACTCATTAGTGGCCAACATATCCTGTCCTCAGCAGCTTACCAAGGATCAGATGTCACCTGTTCA
ATGTGGCACACACACTGCGTATGATGGTGCAGAAGGAGCGGAGCCTGACATCCTGAAGGGGAAGGTATGGCCT
CCATGTTCTATGAAGTGAGCACCGGACAGCAGCTCTTGAGCAGGCCATGGCCGGCTGGAGGTGCTGTG
TCAGCTCTCGGAAGCCACATCGTCCGTCAGAAGGGCGAATCCCTGGCTGACTCCGTGCAGACCATGAGCTGCT
ATGCCGACGTCGTCGTGCTCCGGCACCCCCAGCCTGGAGCAGTGGAGCTGGCCGCAAGCAGTGCAGGG
TGATCAATGCTGGGATGGGTGGAGAGCACCCACCCAGGCCCTGCTGGACATCTCACCATCCGTGAGGAGC
TGGGAACTGTCATGGCATGACGATCACGATGGGGTGACTGAAGCACGGACGCACAGTACATCCCTGGCT
GCCTGCTACCCAGTATGTCAGCCCTGCGTACGTGGCACCTCCAGCCTGCCATGCCACCACTGTGCGGG
CTTCCTGGCCCTCCCGGGCACCAAGCAGGAGGAATTGAGAGCATTGAGGAGGCGCTGCCTGACACTGATGTG
TCTACATGACTCGAATCCAGAAGGAACGATTGGCTTACCCAGGAGTACGAAGCTGCTTGGTCAGTT
TCACTCCCCACATCATGACCCGGCCAAGAAGAAGATGGTGTGATGCACCCGATGCCCTGTCACCGAGATAA
GCGTGGAAAGTGGACTGGATCCCCGCGCAGCCTACTCCGCCAGGCTGAGAACGGCATGTACATCCGATGGCTC
TGTAGCCACCGTGTGGCCGTTCTAGGGCCCTGGCTTCTCAGCCTCTCTTCTAGGCCAGCTGCTGGG
AAGGAATCCAGTGCCTCTACGGGGCAGCACACTTAGATATTCTGGACATCCAGATTGCTCACATGTGCTGA
CCACACTCAGGCTCTGGACTGGAGCTCTGGCATGGGGTGGGGCCTCAGATGCTGGGGCCAGTCTGCC
TCTTCATTCTGCACCTTAAACCTGTACAGTCATTTCTACTGACTTAATAAACAGCCGAGCTGCTCC
TGTGCTGGG

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FIGURE 572

MAALVLEDGSVLRGQPFGAAVSTAGEVVFQTGMVGYPEALTDPSYKAQILVLTYPLIGNYGIPPDEMDEFGLCKWFESSGIHVAALVVGECCPTPSHWSATRTLHEWLQQHGIPGLQGVDTRELTKKLREQSLLGKLVQNGTEPSSLFDPNARPLVPEVSIKTPRVFTNGAPRILALDCGLKYNQIRCLCQRGAEVTVVPWDHALDSQEYEGLFLSNGPGD PASYPSVVSTLSRVLSEPNPRPVFGICLGHQLLALAIGAKTYKMRYGNRGNQPCLLVGSGRCFLTSQNHGFAVE TDSLPAWALFTNANDGSNEGIVHNSLPFFSVQFHPEHQAGPSDMELLFDIFLETVKETAGNPGGQTVRERLT ERLCPGPIPTPGSGLPPPRKVLI LGSGGLS IQQAGEFDYSGSQAIKALKEENIQTLLINPNIATVQTSQLADKV YFLPITPHYVTQVIRNERPDGVLLTFGGQTALNCVELTKAGVLARYGVRVLGTPVETIELTEDRRRAFAARMAEI GEHVAPSEAANSLEQAQAAAERLGYPVLVRAAFALGGLGSGFASNREELSLAVAPAFAHSTSQVLVDKSLKGWKEI EYEVVRDAYGNCVTCVNMenLDPLGIHTGESIVVAPSQTLNDREYQLLRQTAIKVTQHLGIVGECNVQYALNPSEQYYIIIEVNARLSRSSALASKATGYPLAYVAAKLALGIPLELRNSVTGGTAAFEPSVDYCVVKIPRWDL SKFLRVSTKIGSCMKSVGEMGIGRSFEEAFQKALRMVDENCVGFDHTVKPVS DMELETPTDKRIFVVAAALWAGYSVDR LYELTRIDRWFLHRMKRIIAHAQLL EQHRGQPLPPD LQQAKCLGFSDKQIALAVLSTELAVRKL RQELGICPAVKQIDTVAAEWPATNYLYLTYWGTT HDLTFRTPHVLVLGSGVYRIGSSVEFDWCAVGCIQQLRKMGYKTIMVNYNPETVSTDYDMCDRLYFDEISFEVVMMDIYELENPEGVILSMGGQLPNMAMALHRQQCRVLTGSPEAIDSAENRFKF SRLLDTIGISQPQWR ELSDLESARQFCQTVGYPCCVVRPSYVLSGAAMNVAYTDGDLERFLSSAAAVSKEHPVVI SKFIQEAKEIDVDAVASDGVAAIAISEHVENAGVHSGDATLVT P QDITAKTLERIKAIHVAVGQELQVTGP FN LQLIAKDDQLKVIECNVRVSRSFPVSKTLGVDLVALATRVIMGEEVEPVGLMTGSGVGVKVPQFSFSRLAGAD VVLGVEMTSTGEVAGFGE S RCEAYLKAMLSTGFKIPKKNILLTIGSYKNKSELLPTVRLLESLGYSLYASLTAD FYTEHGVKVTAVDWFEEAVDGE CPPQRSILEQLAEKNFELVINLMSMRGAGGRRLSSFVTGYRTRRLAADF S VP LIIDIKCTKLFVEALGQIGPAPPLK VHVDCMTSQKLVRPLGLIDVHVHLREP GGT KEDFASGTAA ALAGGITMV CAMPNTRPPIIDAPALALAQKLA EAGARCDFALFLGASSENAGTLGT VAGSAAGLKLYLNETFSELRLDSVVQWM EHFETWPSHLPIVAHAEQQTVAAVLMVAQLTQR SVHICHVARKEEILLIKA AKARGLPVTCEVAPHHLFLSHDDL ERLGPGKGEVRPELGSRQDV EALWENMAVIDCFASDHAPHTLEEKCGSR PPPGFPGLETMLPLL TAVSEGR LSL D DLLQRLHHNPRRI FHLPPQEDTYVEVDLEHEWTIPSHMPFSKAHWT P FEGQKVKGTVRRVLRGEVAYIDGQVL VPPGYGQDV RKPQGAVPQLPPSAPATSEM TT PERPRRGIPGLPDGRFHLPPRIH RASDPGLPAEEPKEKSSRK VAEPELMGTPDGT CYPPP VPRQASPQNLGTPG LHPQT S PLLHSLVGQHILSVQQFTKDQM SHLFNVAHTLMM VQKERSLDILKGKVMASMFYEVSTRTSSFAAAMARLGGAVLSFSEATSS

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FIGURE 573

AGGGAGTCGTGTCGGGCCACCCGGCCCCGAGCCCGCAGATTGCCACCGAAGCTCGTGTGCACCCCCGAT
CCGCCAGCCACTGCCCTGGCTCGGGCGTGTCCGGCATCATGTGTGGTATATTGCTTACTTAAACT
ACCATGTTCTCGAACGAGACGAGAAATCCTGGAGACCTAATCAAAGGCCCTCAGAGACTGGAGTACAGAGGAT
ATGATTCTGCTGGTGGGATTGATGGAGGCAATGATAAAGATTGGAAGCCAATGCCTGCAAAACCCAGCTTA
TTAAGAAGAAAGAAAAGTTAAGGCACTGGATGAAGAAGTTACAAGCAACAAGATATGGATTGGATATAGAAT
TTGATGTACACCTTGAATAAGCTCATACCCGTTGGCAACACATGGAGAACCCAGTCCTGTCATAGCCACCCCC
AGCGCTCTGATAAAAATAATGAATTTATCGTTATTCACAATGGAATCATCACCACACTACAAGACTGAAAAAGT
TTTGGAAAGCAAAGGCTATGACTTCGAATCTGAAACAGACACAGAGACAATTGCCAAGCTCGTTAAGTATATGT
ATGACAATCGGAAAGTCAAGATAACCAGCTTACTACCTGGTGGAGAGAGTTATCCAACAATTGGAAGGTGCTT
TTGCACTTGTGTTAAAAGTGTTCATTTCGGCAAGCAGTGGCACAAGGGGAGGTAGCCCTGTTGATTG
GTGTACGGAGTGAACATAACTTCACTGATCACATTCTATACTCTACAGAACAGGCAAAGACAAGAAAGGAA
GCTGCAATCTCTCGTGTGGACAGCACAACTGCCCTTCCGGTGGAGAAAAGCAGTGGAGTATTACTTG
CTTCTGATGCAAGTGTGTCAAGAACACACCAATCGCGTCATCTTCTGGAAGATGATGATGTTGCAGCAGTAG
TGGATGGACGTCTTCTATCCATCGAATTAAACGAACTGCAAGGAGATACCCCGAGCAGCTGCAAACACTCC
AGATGGAACCTCAGCAGATCATGAAGGGCAACTTCAGTTCAATTATGCAAGGAAATATTGAGCAGCCAGAGT
CTGTCGTGAACACAATGAGAGGAAGAGTCAACTTGATGACTATACTGTGAATTGGTGGTTGAAGGATCACA
TAAAGGAGATCCAGAGATGCCGGCTTGATTCTATTGCTGGAACAAGTTACCATGCTGGTAGCAACAC
GTCAAGTTCTGAGGAGCTGACTGAGTTGCCGTGATGGTGGAACTAGCAAGTGACTTCCTGGACAGAACACAC
CACTCTCGAGATGATTTGCTTTCTAGTCATCAGGTGAGACAGCAGATACTTGATGGTCTCGT
ACTGTAAGGAGAGAGGAGCTTAACTGTGGGGATCACAAACACAGTGGCAGTTCCATATCACGGGAGACAGATT
GTGGAGTTCATATTAAATGCTGGCCTGAGATTGGTGTGGCAGTACAAAGGCTTACACCAGCCAGTTGTATCCC
TTGTGATGTTGCCCTATGATGTTGATGATCGGATCTCATGCAAGAAAGACGCAAAGAGATCATGCTGGAT
TGAAACGGCTGCCGTGATTGATTAAGGAAGTACTGAGCATGGATGACGAAATTCAAGAAACTAGCAACAGAACCTT
ATCATCAGAAGTCAGTTCTGATAATGGGACGAGGCTATCATTATGCTACTTGTCTGAAGGGGACTGAAATCA
AAGAAATTACTTATATGCACTCTGAAGGCATCCTGCTGGTGAATTGAAACATGCCCTCTGGCTTGGATA
AATTGATGCCGTGATCATGATCATGAGAGATCACACTTATGCCAAGTGTCAAATGCTCTCAGCAAGTGG
TTGCTGGCAGGGGGCGGCCTGTTGTAATTGTGATAAGGAGGAACTGAGACCATTAGAACACAAAAAGAACGA
TCAAGGTGCCCACTCAGTGGACTGCTGCAGGGCATTCTCAGCGTGTACCCCTTACAGTTGCTGGCTTCCACC
TTGCTGTGCTGAGAGGCTATGATGTTGATTCCCACGGAATTGCCAAATCTGTACTGTAGAGTGAGGAATAT
CTATACAAAATGTACGAAACTGTATGATTAAGCAACACAAGACACCTTGTATTAAACCTGATTAAATA
TCACCCCTGAAAGCCTTTTTAGTAAATCCTATTATATCAGTTATAATTATCCACTCAATATGTGATT
TTGTGAAGTTACCTTACATTCCCAGTAATTGTGGAGGACTTGTGATAATGGAATCTATATTGGAATCTGT
ATCAGAAAGATTCTAGCTATTATTCCTTAAAGAATGCTGGGTGTTGCATTCTGGACCCCTCCACTCAATCTG
AGAAGACAATATGTTCTAAAATTGGTACTTGTTCACCATCTCAGACAGTGAAGAGTAGTGCATT
TAATTGGAGTATCTAAAGCCAGTGGCAGTGTATGCTCATACTGGACAGTTAGGGAGGGTTGCCAAGTTAA
GAGAAGATGTGATTATTGAAATTGTTCTGTTAAATCAAACCTGAAAACCTTAAACTGAAAAAA
TTTATTGGTAGGATTATATCTAAGTTGGTACGCCCTAGTTCTCAGACTTGTGTCTATTATCTGTAGGTGG
AAGAAATTAGGAAGCGAAATATTACAGTAGTGCATTGGTGGGTCTCAATCCTAACATATTGACAATTAA
AGCACAAACTTAAATTCAAGCTGTTGGACAACGTGACAATATGATTAAATTGAAAGATGGATGTACAT
GTTGGGTATCCTACTACTTGTGTTCATCTCTAAAAGTGTGTTTATTCTGTATCTGTAGTCTTTATT
TTTAAATGACTGCTGAATGACATATTATCTGTTCTTAAATCACAAACACAGAGCTGCTATTAAATTAATA
TTGATAT

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FIGURE 574

MCGIFAYLNYHVPRTREILETLIKGLQRLEYRGYDSAGVGF DGGNDKWEANACKTQLIKKKGVVKALDEEVHK
QQDMDDIEFDVHLGIAHTRWATHGEPSPVNSHPQRSQDNNEFIVIHNGIITNYKDLKKFLESKGYDFESETDTE
TIAKLVKYMIDNRESQDTSFTLVERVIQQLEGAFALVFKS VHFPGQAVGTRRGSPLLIGVRSEHKLSTDHIPIL
YRTGDKKGSCNL SRVDSTTCLFPVEEKAVEYYFASDASAVIEHTNRVIFLEDDVAAVVDGRLSIHRIKRTAGD
HPGRAVQTLQME LQQIMKGNFSSFMQE IFEQPESVVNTMRGRVNFDYT VN LGGLKDHIKEIQRCCRRLILIACG
TSYHAGVATRQVLEELTELPVMVELASDFLDRNTPVFRDDVCFFLSQSGETADTLMGLRYCKERGALTVGITNTV
GSSISRETDCGVHINAGPEIGVASTKAYTSQFVSLVMFALMM CDDRISMQERRKEIMLGLKRLPDLIKEVLSMDD
EIQK LATELYHQKSVLIMGRGYHYATCLEGALKIKEITYMHSEGILAGELKHGP LALVDK LMPVIMIIMRDHTYA
KCQN ALQQVVARQGRP VVICDKEDTETIKNTKRTIKVPHSVDCLQGILSVIPLQLLAFHLAVL RGYDVDFPRNLA
KSVTVE

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FIGURE 575

GGGGAAGGAACACTGTAGGGGATAGCTGTCCACGGACGCTGTCTACAAGACCCTGGAGTGAGATAACGTGCCTGG
TACTGTGCCCTGCATGTGTAAGATGCCAGTTGACCTCGCAGCAGGAGCCTGGATCAGGCACITCCTGCCTCAG
GTATTGCTGGACAGCCCAGACACTTCCCTCTGTGACC**ATGAA**ACTCTGGGTGTCGATTGCTGATGCCCTGGTT
TGGTGCCTGAGCTGTGCAAGGCCAATTCTCACCTCTATTGGCACATGACTGACCTGATTTATGCAGAGAA
AGAGCTGGTGCAGTCTCTGAAAGAGTACATCCTTGAGGAAGCCAAGCTTCAAGATTAAAGAGCTGGCCAA
CAAATGGAAGCCTTGACTAGCAAGTCAGCTGCTGATGCTGAGGGCTACCTGGCTCACCTGTGAATGCCCTACAA
ACTGGTGAAGCGGCTAACACACAGACTGGCCTGCGCTGGAGGACCTTGTGCTGAGGACTCAGCTGCAGGTTTAT
GCCAACCTCTGTGCAAGCGGCACTGATGAGGACGAGATAGGAGCTGCCAAAGCCTGATGAG
ACTTCAGGACACATACAGGCTGGACCCAGGCACAATTCCAGAGGGAACTTCCAGGAACCAAGTACCAAGGCAAT
GCTGAGTGTGGATGACTGCTTGGATGGCCGCTGGCTACAATGAAGGGACTATTATCATACGGTGTG
GATGGAGCAGGTGCTAACAGCAGCTTGATGCCGGGAGGAGGCCACCAACCAAGTCACAGGTGCTGACTACCT
CAGCTATGCTGCTTCCAGTGGGTGATCTGCACCGTGCCTGGAGCTCACCGCCGCTGCTCCCTGACCC
AAGCCACGAACGAGCTGGAGGAATCTGCGGTACTTGGAGCAGTTATTGGAGGAAGAGAGAGAAAAACGTTAAC
AAATCAGACAGAACAGCTGAGCTAGCAACCCAGAAGGCATCTATGAGAGGCCGACTACCTGCCTGAGAGGGA
TGTACGAGAGCCTCTGTGCTGGGAGGGTGTCAAACACTGACACCCCTAGACAGAACAGAGGCTTCTGTAGGTA
CCACCATGGCAACAGGGCCCCACAGCTGCTCATTGCCCCCTCAAAGAGGAGGACGAGTGGACAGCCGCACAT
CGTCAGGTACTACCGATGTGATGAGGAAATCGAGAGGATCAAGGAGATCGCAAAACCTAAACTTGACG
AGCCACCGTCTGTGATCCAAAGACAGGAGCCTCACTGTCGCCAGCTACCGGTTTCCAAAAGCTCCTGGCTAGA
GGAAGATGATGCCCTGTTGGCCGAGTAATCGTCGGATGCAGCATATCACAGGTTAACAGTAAAGACTGC
AGAATTGTTACAGGTTGCAAATTATGGAGTGGGAGGACAGTATGAACCGCAGTCGACTTCTCTAGGAATGATGA
GCGAGATACTTCAAGCATTAGGGACGGGGAAATCGTGTGGCTACTTCTAAACTACATGAGTGTAGAACG
TGGTGGTGCACCGCTTCCCTGATCTGGGGCTGCAATTGGCTAAGAAGGGTACAGCTGTTCTGGTACAA
CCTCTGGGAGGGGGAAAGGTGACTACCGAACAGACATGCTGCCCTGTGCTTGTGGCTGCAAGTGGGT
CTCCAATAAGTGGTCCATGAACGAGGACAGGAGTCTTGAGACCTGTGATCAACAGAACAGTGTGAC**TGA**CATCC
TTTCTGTCCTCCCTTCCCTGGCTTCAGCCATGTCAACGTGACAGACACCTTGTATGTTCTGTATGTT
CCTATCAGGCTGATTTGGAGAAATGAATGTTGCTGGGAGGACGAGGGAGACCATACTAGGGCGACTCCTGTGT
GACTGAAGTCCCAGCCCTTCATTGACCTGTCATCCCTGGCCCAAGGCTAGGATCAAAGTGGCTGAGCAG
AGTTAGCTGTCTAGGCCTAGCAAGGTGCTTGTACCTCAGGTGTTAGGTGAGATGTTCACTGAACCAA
AGTTCTGATAACCTGTTACATGTTGTTTATGGCATTCTATCTATTGTGGCTTACCAAAAAATAAAATGT
CCCTACCAGAACGCTTAAA

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FIGURE 576

MKLWVSALLMAWFGVLSHVQAEFFTSIGHMTDLIYAEKELVQSLKEYILVEEAKLSKIKSWANKMEALTSKSAAD
AEGYLAHPVNAYKLVKRLNTDWPALEDLVLQDSAAGFIANLSVQRQFFPTDEDEIGAAKALMRLQDTYRLDPGTI
SRGELPGTKYQAMLSVDDCFGMGRSAYNEGYYHTVLWMEQLKQLDAGEEATTKSQVLDYLSYAVFQLGDLHR
ALELTRRLLSLDPSHERAGGNLRYFEQLLEEREKTLTNQTEAELATPEGIYERPVVDYLPERDVYESLCRGEGVK
LTPRRQKRLFCRYHHGNRAPQLLIAPFKEEDEWDSPHIVRYYDVMSEEEIERIKEIAKPKLARATVRDPKTGVLT
VASYRVSKSSWLEEDDDPVVARVNRRMQHITGLTVKTAELLQVANYVGQQYEPHFDFSRNDERDTFKHLGTGNR
VATFLNYMSDVEAGGATVFPDLGAAIWPKKGTAVFWYNLLRSGEQDYRTRHAACPVLVGCKWVSNKWFHERGQEF
LRPCGSTEV

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FIGURE 577

CGGAGCCAGCGTGGGAGGCCGCTGCCGTGCGCGCCCTGGTTTTCTGTTCTTTTTTTTTAACTT
CCTGCCTATCACACGCAGCCATCAGCCCACAAAGACATGACTACCAACGC~~GGG~~CCCTGCACCCATACTGGCCT
CAGCACCTAAGACTGGACAACCTTGTAACCTAATGACC~~CCC~~CACCTGGCATATACTGGCTGCCCTCTCTGTC
ACAGGGGTCTTAGTCGTGACCACATGGCTGTTGTCAGGTCGTGCTGCCATTGGGACTTGGCGGA
CTGTCCTGTGCTGGTTGCA~~G~~TGTGGGTCATTCACTGGAAAGAGTATGCCAAGGGAGACAGCCGATA
GCCTGCTGGAGACCAAGCCTCTTATCTCAACTCTGAAAGAGTATGCCAAGGGAGACAGCCGATA
GGTACAACTTCACAGTGTGCATGGAAACCATCACAGCTGCC~~T~~GTGGGACCAC~~T~~AGCCTGTGGGTGGT
GCCTTCTCCGCCAGCATCCCCCTCCGCTTCATTCTACAGCTGTTGCTCTGTGGCCAGATCTATGGGATGTG
CTCTACTTCCTGACAGAGCACCGCGACGGATTCCAGCACGGAGAGCTGGGCCACCCCTCTACTTCTGGTTTAC
TTTGTCTTCATGAATGCCCTGTGGCTGGCTGCCTGGAGTCCTGTGCTGATGCTGTGAAGCACCTCACTCAT
GCCAGAGCACGCTGGATGCCAAGGCCACAAAAGCCAAGAGCAAGAAGAACTGAGGAGTGGGACCAGGCTCGA
ACACTGGCCGAGGAGGAGCTCTGCCTGCCAGAAAGAGTCTAGTCCTGCTCCCACAGTTGGAGGGACAAAGCTA
ATTGATCTGTACACTCAGGCTCATGGCAGGCACAAGAAGGGAAATAAGGGCTGTGTGAAGGCAC~~T~~GCTGGG
AGCCATTAGAACACAGATAACAGAGAACGCCAGGAGGTCTATGATGGTGA~~G~~ATTTAAAATCAGGAAATAAG
ATCTTGACTCTAAAAAAA

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FIGURE 578

MTTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVVTTWLLSGRAAVVPLGTWRRSLCWFAVCGFI
HLVIEGFVLYYEDLLGDQAFSQLWKEYAKGDSRYILGDNFTVCMETITACLGPLSLWVVIASFRLRQHPLRFIL
QLVVSVGQIYGDVLYFLTEHRDGFQHGELGHPLYFWFYFVFMNALWLVLPGVLVLDALKHLTHAQSTLDAKATKA
KSKKN

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FIGURE 579A

GCACTGCTGCTGCCACCGCCGTGCCGCCGCCGCCGCCGCTGCTGCTGCCGGTCTAAGGAGTCGCTGGA
 GCCCTTCCTCAGACCCGGCCGGTCTCGGCCCGACTCCTGGCGCCAGCGCTAGGCGCACTCACCGCTCTGA
 CGGGTGCAGACGCCGGAGTTGTCAGACTGTGGAGTGGCGGGCACGCCCGAGCCCCCTCCCTCCCTGACC
 CCTTCTGCCATGCCCGAGACATGGGAACGCCGACGCCAGAAAGGCAGCGAGGTGGAGAGCGTGAAAGA
 GTTTCTAGCAAAGCAAAGAACGACTTTGAAAAATGGGAGAATCCAACCTCAGAATAATGCCGGACTTGAAGA
 TTTGAAAGGAAAAAAACCCCTGGAACAGGTCATTGGAAAGAGTCATGTTGGTAAACACAAAGCCACTGAACA
 GTATTATGCCATGAAGATCTTAGATAAGCAGAAGGTTAAACTGAAGCAAATAGAGCATACTTGAATGAGAA
 AAGAATATTACAGGCAGTGAATTTCCTTCTGACTGGAGTATGTTTAAGGATAATTCTAATTATA
 CATGGTTATGGAATATGCCCCGGGGTGAATGTTTCACATCTAAGAAGAATTGGAAGGTCAGTGAGCCCCA
 TGCACGGTTCTATGCAGCTCAGATAGTCTAACATTGAGTACCTCCATTCACTAGACCTCATCTACAGAGATCT
 AAAACCTGAAAATCTTAATTGACCATCAAGGCTATATCCAGGTACAGACTTGGTTGCCAAAAGAGTTAA
 AGGCAGAACTTGGACATTATGGAACCTCAGAGTATTGGCTCCAGAAATAATTCTCAGCAAGGGCTACAATAA
 GGCAGTGGATTGGTGGGCATTAGGAGTCTAATCTATGAAATGGCAGCTGGCTATCCCCATTCTTGAGACCCA
 ACCAATTAGATTATGAAAAGATTGTTCTGAAAGGTCCGATTCCACTTCAGTCAGATCTCAAGGA
 CCTTCTACGGAACCTGCTGCAGGTGGATTGACCAAGAGATTGAAATCTAAAGAATGGTGTAGTATATAAA
 AACTCACAAAGTGGTTGCCACGACAGATTGGATTGCTATTACAGAGGAAGGTTGAAGCTCCATTACACCAAA
 GTTAGAGGCTCTGGAGATACCAGCAACTTGATGACTATGAAGAAGAAGATATCCGTGTCTATAACAGAAAA
 ATGTGCAAAGAATTGGTGAATTTAAAGGAAACAAGATGACATCTGAGTCACACTCAGTGGTCACTCTG
 TTGAGAGATAAGGTAGAGCTGAGACCGCTTGTGAAGCAGTTACCTAGTCTCATTCCAACGACTGAGTGA
 GGTCTTATTGCCATCATCCCGTGTGCCACTCTGCATCCACCTATGTAACAAGGCACCGCTAAGCAAGCATTGT
 CTGTGCCATAACACAGTACTAGACCACTTCTACTCTCTGGTTGTCTTCTCCTCCTACATCCATTTC
 TTCTTTCCAATTCTATTGGTTCTAAACAGTGTCCATTATTTGTTGGTGTTCAGATGGCAGTGT
 TATGGCTACGTGATATTGAAAGGAAAGGATAAGTGTGCTTCAGTAGTTATTGCCAATTGTTGTTGGTCAAT
 GGCTTGAAGATAAAACTTCTAATAATTATTATTCTTGAGTAGCTCAGACTGGTTTGCCAAAACCTTGGTA
 ATTGTTGAAGATAGACTGTCTTATCACCAGGAATTATACAAATTAAAGACTAACCTTCTGGAATTCACTATT
 CTGGCAATAAATTGGTAGACTAATACAGTACAGCTAGACCCAGAAATTGGAAGGCTGTAGATCAGAGGTTCT
 AGTCCCTTCCCTCTTATATCCTCTCCTTGAGTAATGAAGTGTGACCAGCCTGTGTAGTGTGACAAACGT
 GTCTCATTCAAGGAAAAACTAATGATATGGATCATCACCAGATTCTCTCACTGGTACAGCATTCTGTAG
 GTATTAGAGAAGAGTTCTAAGTTCTAAACCTTAACTGTTCTTAAGGATTAGCCAGTATTAAATAGAAC
 TGATTAATGAAAGTGCACAAATTAAATTCTCTAATAGCCTCATCATAAAACTTTAAAGGAAATAAGCAA
 ACTAAAAAGAACATTGGTTAGATAAAACTTATACCTTGCAAAGTCAAAATGGCTGATTGGAAACAATA
 TAGAGGTATTCAATTAAATGAGGGTTACATTGTTGTTGTAACCGTTAAAAGAAGTTGTTCCAGCT
 AATTATTGTGGTGTACTATATTGTGAGCCTAGGGTAGGGGACTGCTGCAACTTCTGTTCATCCATGCC
 ATCAATGAGGAAGGGAAACAAAGTGTATAAAACTGCCACAATTGTATTAAATTGAGGTATGATATTCA
 ATTTCATAATTCTAACCTCTGCTCTCAGTAACAGAACAGATGCTGATCGATCATGCAGATAACATTG
 TTGAGAGGTTAGTTCTCACACTTTTGCCAAGTACTTAACACATTGCTGTGAGGTGAAATTCA
 AGCACCTTGCACATTAGTCAGTGTGAGAATCCATGGCTAACCCACTGTTGCTATTCTTCT
 TGCTTTAATTCTCCCATCTGATTCTCTGCTTCACTGACCTAACAAACACACAGAGAAGAGTT
 AAACGGGTCATTAAATGATCAATTACCTGCATATAAAATTATTAAATCAAGCTGATCTTAATGTAT
 AATCATTCTATTGCTTATTATCGGTGCAGGTAGGTCTTAACACCCATTCTTCTATCTGTAC
 ACCACCCCTGGTGAAACCTTGAAGACATAAAACCTGCTGAGATGTTCTTCTACCAATCTATG
 CTGGTTCTGCATGGTAATGTCATGTAATTGATATTGTTCACTGGCATCTATATTAAACGTGCAAGA
 AAAAATAAAACTCTGCTTAGCAAGTTGTGTAACAAAGGCATATCGTCATGTTAATAAATTAAACATC
 ATTGCTATAAAATATTAAATTCTGTATTCTCATTTAGACCCAAGAACATGCTGACCAATGTGTTCTAT
 AAACACAAATTCTATGGTAGCTTGTGTTGATATTGTAATTAAAGTCATGGGATGACAATT
 GATTATTACAATTAGTTCTAGTAATCAAAAGATTCTATGAAATTCTAAATTAAATTCTATGAAATT
 CTAGTGCCAGCTGAGAATCACCTTAGGTAGATGATCCCTAGACATACGTTGGTTTGAGGGCTATT
 CAGCCAATTCTACTCTATTAAAGGCCGTGAGCAAGCTGTCATGAGCAAATATGTCAGGGAGTC
 AATTCTGA

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FIGURE 579B

CCAATCAAGTACACTAAATTAGAATATTTAAAGTATGTAACATTCCCAGTTAGCCACAATTAGCCAAGAA
TAAGATAAAAACCTGAATAAGAAGTAAGTAGCATAAAATCAGTATTAAACCTAAATTACATATTGAAACAGAAG
ATATTATGTTATGCTCAGTAAATAATTAAAGAGATGGCATTGTGTAAGAAGGAGCCCTAGACTGAAAGTCAGA
TCTGAATTTCAGGCTGGAAAACATCAGTATGATCTCAGCCTCAGTTCTGTGTAAAATGGAAGAACTGGA
TTAGGCAGTTGTAAGATTCTCCTAACCTTCACAGTCGATGACAAGAGATTGTCTTTATCTGATATTGAAAG
GTATATTGTTGAAGTAAGTCTCAATAAGGCAATATATTAGGGCATCTTCTTATCTGACAGTGTTC
TTAAAATTATTGAATATCATAAGAGCCTGGTGTCTGCTTAATTCTTCTCACTCACCGATGCTGAATACCC
AGTTGAATCAAACGTCAACCTACCAAAAACGATATTGTGGCTTATGGGTATTGCTGTCTCATTCTGGTATATT
CTTGTGTTAACTGCCATTGCCTGAAAATACTCATTGTAAGCCTGAAAAAAATCTTCCACTGTTTTTC
TGCTTGTGTAAGAATCAAATGAAATAATGTATGTGAAAGCACCTGTAACCTATCAATGTAAAATGT
TAAGGTGTGTTGTTATTCAATTAATTACTCTTTAGAATGGAATTTCCTATGCACTACTGTAGCTAGGAAA
TGCTGAAAACAACGTGTTTTAATTAACTCAATAACTGCAAAATTAAAGTACCTCAATGGATAAGCCAAAAAA
ATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTGATATCAGCTTATCATACC

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FIGURE 580

HCCCHRRRRRAAAPLLLVLRSSLEPFHQTRPGLRARTPGASARRTHRSRGCRGSCPRLWSGGHGPSPPSLPXP
LLAIAPDMGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKTLGTGSFGRVMLVKHKATEQ
YYAMKILDQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMVEYVPGGEMFSHLRRIGRFSEPH
ARFYAAQIVLTFEYLHSLDLIYRDLKPENLLIDHQGYIQVTDFGFAKRVKGRTWLCGTPEYLAPEIILSKGYNK
AVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFPSHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIK
THKWFATTDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEDIRVSITEKCAKEFGEF

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FIGURE 581

CCAGCCCCCTCCCTCCCTGACCCCTTGCATGCCATGCCAGAC**ATGGGAACGCCGACCGCCAAGAAAG**
GCAGCGAGGTGGAGAGCGTGAAGAGTTCTAGCAAAGCAAAGACTTTGAAAAAATGGAGAACATCAA
CTCAGAATAATGCCGGACTTGAAGATTGAAAGGAAAAACCTTGGAACAGGTCATTGGAAGAGTCATGT
TGGTAAAACACAAAGCCACTGAACAGTATTATGCCATGAAGATCTTAGATAAGCAGAAGGTTGTTAAACTGAAGC
AAATAGAGCATACTTGAAATGAGAAAAGAATATTACAGGCAGTGAATTTCCTTGTGACTGGAGTATG
CTTTAAGGATAATTCAATTATACATGGTTATGGAATATGCCCTGGGGTGAATGTTTCACATCTAAGAA
GAATTGGAAGGTTAGTGGAGCCCAGCAGGTTCTATGCAGCTCAGATAGTGCTAACATTGAGTACCTCCATT
CACTAGACCTCATCACAGAGATCTAAACCTGAAAATCTTAATTGACCATCAAGGCTATATCCAGGTACAG
ACTTGGGTTGCCAAAAGAGTTAAGGCAGAACTGGACATTATGGAACCTCAGAGTATTGGCTCAGAAA
TAATTCTCAGCAAGGGCTACAATAAGGCAGTGGATTGGCATTAGGAGTGCTAACATGAAATGGCAGCTG
GCTATCCCCATTCTTGCAGACCAACCAATTAGATTTATGAAAAGATTGTTCTGAAAGGTCCGATTCCCAT
CCCACCTCAGTCAGATCTCAAGGACCTCTACGGAACCTGCTGCAGGTGGATTGACCAAGAGATTGGAAATC
TAAAGAATGGTGTAGTGTATAAAAACTCACAAGTGGTTGCCACGACAGATTGATTGCTATTACAGAGGA
AGGTGAAGCTCCATTACCAAAAGTTAGAGGCTCTGGAGATAACCAGCAACTTGATGACTATGAAAGAAG
ATATCCGTGTCTATAACAGAAAATGTGAAAAGAATTGGTGAATT**TAAAGAGGAACAAGATGACATCTGA**
GCTCACACTCAGTGGTGCACCTGTTGAGAGATAAGGTAGAGCTGAGACCGTCCTGTTGAAGCAGTTACCTAG
TTCCTTCATTCAACGACTGAGTGAGGTCTTATTGCCATCATCCGTGCGCAGTGCATCCACCTATGAAAC
AAGGCACCGCTAACGCAAGCATTGCTGTGCCATAACACAGTACTAGACCACTTCTTACTCTTGGGTTGTC
TTCTCCTCTCATTCCATTCATTCTTCAATTCTATTGTTCTAAACAGTGCCTCATTATTGTTG
TTGGTGTTCAGATGGCAGTGTATGGCTACGTGATATTGAAAGGAAAGGATAAGTGGTGTTCAGTAGTTAT
TGCCAATATTGTTGGTCAATGGCTGAAAGATAAA^ATTCTAATAATTATTATTCTTGTAGCTCAGACT
TGGTTTGCAAAACTCTGTAATTGAAAGATAGACTGCTTATCACCAAGGAAATTATAACAAATTAGAC
TAACTTCTGGAATTCACTATTCTGCAATAAAATTGGTAGACTAACAGTACAGCTAGACCCAGAAATTG
GAAGGCTGTAGATCAGAGGTTCTAGTCCCTTCCCTTATATCCTCCTGAGTAATGAAAGTGACC
AGCCTGTGTAGTGTGACAAACGTGCTCATTGAGGAAACAAATGATATGGATCATCACCCAGATTCTC
ACTGGTACCAAGCATTCTGTAGGTATTAGAGAAGAGTTCTAACGTTCTAAACCTTAACGTTCTAACGGATT
TTAGCCAGTATTAAATAGAACATGATTAATGAAAGTGACAAATTAAATTCTCTAACAGTCTCATCATAA
ACTTTTAAAGGAAATAAGCAAACATAAAAGAACATTGGTTAGATAAAACTTATACCTTGCAAAGTCAAAAA
TGGCTGATTGGAAACAATATAGAGGTATTGATATTAAATGAGGGTTACATTGTTGTTGAAACCG
TTAAAAAGAAGTTGTTCCAGCTAATTATTGTTGACTATATTGTTGAGCCTAGGGTAGGGCACTGCTGCAA
CTTCTGCTTCATCCCATGCCATCAATGAGGAAAGGAAACAAAGTGATAAAACCTGCCAACATTGATT
ATTTGAGGTATGATATTTCAGATATTCTATAATTCTAACCTCTGTTCTCAGTAAACAGAACATGCTGATCG
ATCATGCAGATACAATGTTGGTATTGAGAGGTTAGTTCTAACATTGTTGCCAACTGACTAACAA
CATTGCTGTAGGTGGAAATTCAAGCATTGACATTAGTTGAGTGTGAGAACATGGCTAAC
CACTGTTGCTATTCTTCTGCTTTAATTCCCCATCTGATTTATCTCTGCGTTAGTGCACCTACC
TTAAAACACACAGAGAAGAGTTAAACTGGGTCATTAAATGATCAATTACCTGCATATAAAATT
AATCAAGCTGATCTAATGTATATAATCATTCTATTGCTTATTATCGGTGCAGGTAGGTATTAACACCACTT
CTTTCATCTGTACCACACCCGGTGAACCTTGAAGACATAAAAAACCTGCTGAGATGTTCTTCTACCA
ATCTATATGTCTTCGGTTATCAAGTGTGTTCTGATGGTAATGTCATGAAATGCTGATATTGATTCACTGGTC
CATCTATATTAAAACGTGC

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FIGURE 582

MGNAATAKKSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKTLGTGSFGRVMLVKHKATEQYYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMEYVPGGEMFSHLRRIGRFSEPHARFYAAQ
IVLTFEYLHSLDLIYRDLKPENLLIDHQGYIQVTDFGFAKRVKGRWTLCGTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFPSHFSSDLKDLLRNLLQVDLTKRGNLKNGVSDIKTHKWFAT
TDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEDIRVSITEKCAKEFGEF

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FIGURE 583A

TCCCGAAACCAGAGGGATGGGCCGGCTGTGCAGTAGAACGGGATCGAAAAGAGGAAACAGGGCACGAAGAC
CAGCGAGAAAGAAGAGGACACCTGGAAAGCGGAAGCAGAAGACGGGAAGGGAAAGAAACCCATAGCAGGTG
GAAACCAGATCTAGAGCAACACCGTCAGGTTCACAGTTTTCTAGAAGAGAAAGTACCTGAGGATTGC
TCTTTTCTACCGTAATGAAAACACTTTGTCTCATCATAAAAGAAAAACTAAGGGAGGTAAAGGCAG
TCTCCTGTTTATTAGGGGAGAGGTGAAGGGAAATCCAGGCTCACTTCTGAATAAGCCACTGCCTGGTCACA
GAGCAGAACCATCCTGGTTCTGAAGACACATCCCTTCAGCAGAATTCCAGCCGGAGTCGCTGGCACAGTTCTA
TTTTATTTAAATGTATGTCTCCCCCTGGCCTTTTTTTTTTTTTAGCAACACTTTCTTGTT
TGTAAACCGAGTGACCAGAAAGTGTGAATGCCAGTAGGAATATTTCTGTCTCTTTATCTGCTTGCTT
TTTAGAGAGTAGCAGTGGTCCATTTCGAAAAGGACGTTCTAATTCAAAGCTCTCCAATATAATTACAC
GAATACGCATTAGAAAGGGAGGCAGCTTGAGGTTGAATCCTACTGAGAAGG**TGA**AGAAGGAGGCCAGGCA
CGAACAAACACCGAAAAGAACACCCAGGTGGGGCGAGTCGGACGCCAGCCCCGAGGCTGGTCCGGAGGGGG
CGGAGTAGCCCTGAAGAAAGAGATCGGATTGGTCAGTGCCTGTGGTATCATCGTAGGGAACATCATCGCTCTGG
AATCTTGTCTGCCAAAGGGAGTGTGGAGAATGCTGGTCTGTGGCCTTGCTCATCGTCTGGATTGTGAC
GGGCTTCATCACAGTTGTGGAGGCCCTGTGCTATGCTGAACTCGGGTCACCATCCCCAAATCTGGAGGTGACTA
CTCCTATGTCAAGGACATCTCGGAGGACTGGCTGGGTTCTGAGGCTGTGGATTGCTGTGGTACAC
CACCAACCAGGCTGTATGCCCTCACCTCTCAACTACGTGCTGCAGCGCTTCCCCACCTGCTTCCCC
AGAGTCTGGCCTCGGCTCTGGCTGCCATCTGCTTATTGCTCCTCACATGGGTCACACTGTTCCAGTGTGCGGTG
GCCACCCGGGTTCAAGACATCTCACAGCTGGGAAGCTCTGGCCTGGCCTGATTATCATCATGGGATTGT
ACAGATATGCAAAGGAGAGTACTCTGGCTGGAGCAAAGAATGCATTGAGGATTCCAGGAACCTGACATCGG
CCTCGTCGCACTGGCTTCCTCAGGGCTCCTTGCTATGGAGGCTGGAACCTTCTGAATTACGTGACTGAGGA
GCTTGTGATCCCTACAAGAACCTCCAGAGCCATCTCATCTCCATCCCACGGTACATTTGTGATGTCTT
TGCCAATGTCGTTATGTCAGTCAATGTCACCTCCAGGAGCTGCTGGCATCCAACGCCGTGCTGTGACTTTGG
AGAGAACGCTCTAGGAGTCATGGCTGGATCATGCCATTCTGTTGCCCTGTCCACATTGGAGGAGTTAATGG
GTCTCTTCACCTCCCTCGGCTGTTCTCGCTGGAGGCCACCTCCAGTGTGTTGGCCATG
CCACGTGAAGCGCTGCACCCCAATCCAGCCCTGCTCTCACATGCATCTCCACCCGTGATGCTGGTACCCAG
CGACATGTACACACTCATCAACTACGTGGCTTCATCAACTACCTCTTCTATGGGGCACGGTTGCTGGACAGAT
AGTCCTTCGCTGGAAGAACGCTGATATCCCCCGCCCATCAAGATCAACCTGCTTCCCATCATCTACTTGCT
GTTCTGGCCTTCCTGCTGGCTTCAGCCTGTGGTCAGAGCCGGTGGTGTGGCATGGCTGGCCATCATGCT
GACAGGAGTGCCTGTCTATTCTGGGTGTTACTGGCAACACAAGCCAAGTGTTCAGTGAATTGCTATTGAGCT
GCTAACCCCTGGTGAAGCAGAACAGATGTGTGGCTGTACCCCGAGGGTGGAGGCCACCTCCAGGGACAGAGGAGGC
TAATGAGGACATGGAGGAGCAGCAGCAGCCATGTACCAACCCACTCCCACGAAGGACAAGGACGTGGGGGGCA
GCCCGAGCC**TGA**GGGACCACTCCCTGGCTACTCTCTCCCTCCCCCTTTATCCTACCTCCCTGCCTTGG
TCCCGCCAACACATGCGAGTACACACACACCCCTCTCTGCTTTGTCAGGCAGTGGTAGGACTTGGTGTGGG
TGGTAGAAATTGTAACAAAAACTGACATTCAACCAAAGAACCGCTCTCACCCAGGGTCCATGTCCAG
GCCCACTCCAGTGCCTGCCACACTCCAGCTGCTGGAGGAGAGGGAGATGCCAAGGTGCCCTGCAGGACCTCC
CTCCGGGCCACACCCCTCAGCTGCCCTTCAGGAACCGGAGCTCATTACTGCCCTCCCTCCAGGGAGGCCCTTC
AGAGAGGAGAGGCCAGGAGCTGCATTGTTGGGGACAGGCTCAAGCAATTCTGCCCCATCAAGGGGTAGCTGG
AGAGACCCAAAGACCCATCTGTTACCAAGGGACCCAAATCCAAGGGGATGCTCCCTCTGCCCTCTTCTGCC
CCTCCCCATCATACCTGCACCCACCCAGCCAGGGCTCCCTGTCCAGAATTGGTTCTCCTCAGGACGCCAACTC
CCAGAGCTAAGGACCAAGGAGAAGAACAGCCTCTCCACCCCAAGCCAGGCGTTGAGGAACATATTGAGAAAGG
TTCAGATTGAGAACCCAGCCCTGCCCTGCCCTGCTCATCCAGCCCCAACATGGTGCCAAAGCTCCAGAAG
CCAAAAAGCTTCTGATTTAAGGTAGTGGGCATCTCTCTCTAATGACGAAGCTGCTCAGCAACTCCACCTGCC
CGCCGCAGGAAGGAGCAGTCCCTGCTATCCCTGCAGCCACTCCCAGCACACCCGCACACGCCAGCACCACCGC
CCCACCGTGCACCTCTCTCTGGGCCCTGGCTGGGACCCAGGTACGAAGGATCCCCAAGGCCCTCAGGGCTGA
GATCAGAGGCCAGATCAGCCTTAAGTCACCTCCCATCCAAGAACCTGGCTAAAAATACTCCCTATTTCTAACCC
TCAGGACGGATCTGATATTAAATGCCCTCCCTGGGAGGAAGGGTGTCTTCCCCCTCCAGGGTGCCATTCCA
TACCCCTGGGAGACTGAGGAGAGCATTGGCTGAAGCCCAGTTCCCTTCCCATCCATCCCCAACCTCAATAATCCCC
CACTCCTCGCAGGTCTCAGTGTATGCTGTCTGGGGCAGGGTAGTGGCAGCAGGGCGCCACTCTG

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FIGURE 583B

GAGATCCTCAAAAAGGCCCTCTGTGGCTGGCAGCCTGACCTTCCCTGGCTTCAAAGGAAGGCTATGG
AGTTTGCTGTGGCCCTGCAACCTCCCAGCCACTCCTGCTGCACTAAGGACTTAGGATCCTTATCACAAATC
GGGATTCTCTCCCCACCCCGAATTCTGCTGCTAAACTGGAATACACAGGAGCCCTCCTGGCCTGGATGGTG
TCTCCCAGCTCCCCGCCAGCTGCCACCCATAGTTGGTGAGATGCCAAGTTGGTCTGAGTTGTGACCCCT
TCAGAGTAGATGCCCGGCAGGCTGGGTTGGCCCTGGAGGGTCAGGGGACCATCTTCTTATTCCCTTTCTC
ATTCTCCAACCTCCTCCCTTCAATTATTTTTGTAAAGTTGATGCCCTACTTTGGATAAAATATTTT
GAAGCTGGTATTTCTATTCTTTGGATTTTTAATGTAAGGTTGGGGATGGAGTTAGAACCTTAAT
GATAATTCTTCGTTGGTGTAGGTTAGAGATTGTTGTGGAGAGGTTTTCTTTGATGTAATAAAA
TTTAAAAATGGAAATGAAAAAAAAAAAAAAA

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FIGURE 584

MEEGARHRNNTEKKHPGGGESDASPEAGSGGGVALKKEIGLVSACGIIVGNIIGSGIFVSPKGVLLENAGSVGLA
LIVWIVTGFITVVGALCYAELGVTIPKSGGDYSYVKDIFGGLAGFLRLWIAVLVIYPTNQAVIALTFSNYVLQPL
FPTCFPPESGLRLLAAICLLLWTWNCSVRWATRVQDIFTAGKLLALALIIIIMGIVQICKGEYFWLEPKNAFED
FQEFDIGLVALAFLQGSFAYGGWNFLNYVTEELVDPYKNLRAIFISIPLVTFYYVFANVAYVTAMSPQELLASN
AVAVTFGEKLLGVMAWIMPISVALSTFGGVNGSLFTSSRLFFAGAREGHLPNSVLAMIHVKRCTPIPALLFTCIST
LLMLVTSMDMYTLINYVGFINYLFYGGTVAGQIVLRWKPDIPRPIKINLLFPIIYLLFWAFLLVFSLWSEPVVCG
IGLAIMLTGVPVYFLGVYWQHCKFCFSDFIELLTLVSQKMCVVVYPEVERGSGTEEANEDMEEQQOPMYQPTPTK
DKDVAGQPQP

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FIGURE 585A

CCCGGGCGAGCCCCGCGCAGCTCTGCCGCCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGCGTTCT
 CCCGGTTCTAGCAAAGCCCCCGGGTGCCCATCAGTTCCCTGGGTGACTACAGCGTGTGTTTTCTTCCT
 CTTCCCTGCCTGTGCCCCCTCTCAGGATGGCAGAGGCGGAATTGACAAGAAAGGCTGCAAGCCATAGCA
 GAAAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTCTGCTGCAGCAT
 TCCAAGTCAAAGTGCTCAGGGAGAAATGGCTGCAGGGCATAACCGCTGGAACAGCCAGGGACTGCCAAGAGGAGGAAGCC
 AGGAGGCGCAGTCTGAAGAGGATGAGGTCAGAGTCAGCAACTTGAAAGATAACATTAGAGGCTGGAGCAAGAA
 ATACAAACGCTAGAAAGTGAAGAGTCCCAGATATCTGCCAAAGAGCAAACTCATCCTAGAGAAACTGAAGGAAACA
 GAAAATCCTCAAGGACTTCAGAAGGGTTCTCCAGTACGGATGGAGATGCAAGTAAATTACATTCTCCAG
 CTTCCGACCTGCCAATCCTCTGTCAGAACAGCAGAACCATCACCTGGCAGGACGGGACCAGCAGAGCGGCT
 GGAGTCGGGTGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCAGAC
 ATGACTATCAAGAACGCTCCCCAGCTTCTGAGGATGATACTGGCTAAAAGCAGGGAGACAACATAGTGCC
 ACCCTCTGGAGCCTGCTGCCAGCTCTTCCCCAGATCACAAAACATGGAATTGAGGTGCTGTCAGAA
 TGTAAGTGTCTGGAAATCACCTCTACCCCACATCCCAGTGGACCATCCCTCCGTTCTATTCAACCCCGCAT
 AATGGCCTCTTACTGATCACCAACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
 CTAGAGGCCACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCCTCCCCAGAGCCTGGTCAGTG
 GTTCTGGTGGCGGCTAAGCCCCCTGTCCACGAGGCAGCCAGCCAGAACCCACTGAAAGAACAGCTAGCCGG
 CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAAATGGCCAT
 TCCCCCAGCCAGCTAGAGATGCGCTGGGGACAGCCTGCAGGTGCCTGTCAGCCCCAGCTCCACAACCAGCTCA
 CGGTGTTCTCCGAGATGGAGAGTTCACTCTCACCAACTGAAAAGGAGGCCAGTTGAGCTGCGTGCCTTC
 CATGAGGACAAGAACGCTCCAAGCTTTGAGGATGACGAGCATGAGAAAGAACATACTGCATTAGAAAAGTG
 AGGCCTTCAGAGGAGATGCTGGAGCTGGAAAAGGAGAGGAGAGGAGCTCATCCGAGGCCAGGGCTCAAGAACAG
 CCTGGCATTGCAAGAAAATGGTGAATCCCCCGAGGAAAAAACATCGAGGAGCAGCTGGACGAGGAACATCTG
 GAGTCGCACAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGCTGCTGCTGCAAGCAGTTA
 CAGCAGCAGCAGCAGCCCCATCGAGCTGACAGCCCTGCTCTCATGAAACGCGAACAGCATGATT
 GACAAAGCAAAGGAGGACATTGTCACAGAGCAGATAGATTCTCTGCTGCTGCAAACAATTTCAGCTGATGGAG
 AATTCCAGGCAAGCGGTGGCCAAGGGCAGAGTACACCCAGGCTGTTCTCATCAAGCCTTCTACAGGCCTCTG
 GGGTCAGTCACTCAGACAAGCCACTGACTAATCCGAGACCACCTCTGTCGGGGACCTCCAGAACAGACTGGT
 GCCTCAGCCGCCAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATGGCAGCAGGAAGCCAGGGCAACACA
 GCCTCTCAGGGGAAGGAAGGCCCTACAGCGAGCCTCTAAACGTGGGCCCTATCTAAACTGTGGCTGAGGAT
 GGAGAATTTCAGAGCAGCCCCGGCTGTCTCACTGTGGTCAAGGATGATGACCATGGGATTGGATCAGTTCTCA
 AGATCTGCAATGTCTCTTGACCCAAGAGGAGCTGACTCTGGTCTGGACGAATTGCTGGTGGAGGTCTCAGGAT
 ACCACAGTCCTGGAGACCCATCCAATGATTTCAGCATGGACAACATCAGTGCAGCGGGGACATCCAATGAGACA
 ACCAATGCCCTCCAGGAAAATTCACTGGCTGATTCTCTGCCAGACACCACAAACTGACAACCCCTCAGAG
 GGCGAGGAGAAGCGCTCCAAGTCATTAGTGTATGGTTCTATTCCCTCCAGCTGGGGACTCT
 CGTTGGTTGATGACCCCTGGAGTATCAGGCTGCCCTGGTGCAGAATGCCATTCAACAAGCCATAGCCGAG
 CAGGTGGATAAAGCTGTCCAAAACCAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
 GCTGAAGCTGCGGTTTGGCTCAGAAAAGCCTCAGAGCATGTTGAGGCCACCTCAGGTGCTTCTCCTGTTCAA
 GAGAAAAGGGATGTATTACCAAAGATTCTGCTGCTGAAGACAGGGCCTCAGGGAAAGGGGCCCCCAGCCA
 CTGCCAGCTGTGCAAGCCAGTGGCCGATTAACATGGAGGAGCAGGCCAGAGGAAGCTATTCAAGCAAGTAC
 TCGGAGGCAGCTGAGCTGAGAACGACAGCCCTCTGGCCACTCAAGAATCTGACGTGATGGTTGGCCTTTC
 AAGCTGAGGTCCAGGAAACAGCGGACTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAGGGAAAGAG
 GAGCTGAAGAGGCAGAGACAAGTCTTGAGAGTACGCAGAGCCCCAGGACAAGAACATGCCCATCACTGCCCTCC
 AGAACATGCTACAAAAGTCTCCAGGAAAATAGAGAAAGTCAAACCTCCATCCCCACCAACTGAAAGGCC
 AGCCTGCAGCCTGACTTAGCCCCCTGAAGAGGCTGCCGGAACCCAGCGGCCAAGAACATCTGATGCAAGACCTCATG
 GAAGACTATGAGACACACAAATCTAAAGGCGCAGAGAATGGATGATAGTAGTTACACTCTAAGTTACTGTCT
 TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGGTTAATCGAAGAAAGAGCGACTGGCTTGCCTGG
 GCAGGGATCTATGCCAACCCAGGAGGAAGAACAAACGAATTAAACCTCCCTCAACCCAGGAAGCGTCTTGGTGCT
 TGGGAGACCAAGAAACCAAGAAATTAAACAACGATTAAATGGACTATTATTAAAGTGCACAAACAAACTC

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FIGURE 585B

AGCAATCCTTATGTAGACCAGAAGCTGCAATATAACATGATGAAAATGAAACGAAAGGAAGTCCCCCATCAGA
 CTCTGGACACCCAGGAATCAAAGAGAAAGGACTTTGGTACTCAATCCCAGTGTCTGGTTGGGCCAATC
 TACAATGGATCCAAAAGGACAAACATGTTACAAGCAAATCAACATAGTGCTGCAGGCAGACTGAGACCAGCC
 TCTCTGGCGATGAAGGACAATGGTGGTAGGCCACTTAGAGAGCAGTAGGGCCAGGCTGGTCAGCCTACATG
 GCACAGGATATTCCCTGCACCAGTTCCACCTGCACTTGCAGCATTAGAGGGTGTGCATTAACCTCCATT
 CTCCAGCAGCCATAAAATGAATGGCCTTCTCCATATTGCCAGAAGAGGCAGTTATGATTCCACTTCTCC
 ACATTTAATTATTTAATTGAGAACAACTCATGATCACAACTCATAAAATCCATATTAAAGACAATAGTCTT
 CATGTCACAAACACAATCTATTCTACATGAGGAGGCTGAGAAAGGGAGAGAAAAACAAACCAATGGATGATG
 TTAGCTTAGGATCGTCTGCTTATAATATTCACTGATCTGAGTTATGAGAACACATTTCACAGTTATGTT
 TCTTCATAGGAAACTATATTAGTGGCAACAACATTGATGGATGGGGAGTATACACGTATAGA
 ATCTGTACCGCTGAACAACCTGGTCAAGATGGGGCATTTAGAGCGGAATAATTGAAAAAAAGGCG
 AACTCTGCCTGGAGAGGTAGATGATAAGAAATAAAAGGTGTTATAACTATTGTATTATAAGTGGCCTT
 AGAGATAGGAAGAAGAATGATGGATTCCCTGGATCAATCAGAAAGGAAACACGAAAGAAAAGTCAGGAAGGTA
 GAGAGAGAAAAGGGAGGGAGGAGAAAGAATGGAATAAAATAAGGAGGTAAGAGATACTATTGCTGAGCA
 ACCAGTGTGTTTCAGGATGATAAAAGAAAATAAGAATAGAAATAAGTGCAGGCTTGGATCAGCTACAAATC
 CTAAAGATGGGTGTGATGTGGATGTGTGTGTGTGACACCATTGTGTTGTAAGGTATGTTCA
 TGAGTAAGGGTGTGTTGATGTTGATTAAGGAGGTGACAGTGGACTGGGACTTGGGTGACAGGTAACTCC
 AGAGCTGTTGCTGGCTTCAGGAGTGGAGTGAGAATTCTTTATGAAAAGGGATATAAGGCACCGAGCTGA
 TGCAGTATTGTAATATTAGTGCACAAAGGTATTGATGAGTCACAATTACAAAGTTGAGCGGTTT
 GTAATTGACATTAGGAAAGTCTCCTATTATTCTCATACTTACATTGCTTAGTATACTATAGAGGATGC
 CAGCTTAATCTTCGTCAATTAAAGCCATATGATAAGGTATTCAATAATTGGGTGCCCTAAATTCTGGATG
 AGAAAATTTCATTCTGGCATGAGAAAGAAAAAAATAACAGCCTCTTTTTCTTGTGTTAAAC
 TGTGGTTTTAAAAAGCAATAATTAAACTCAGACCTCACTAAAATCATTGTTTTATATTGTTATGTCAT
 AACGCTCTATTATGTTATTCTAACAGTAGCAATTTCACAAAATTGTTAGATGTTAACGCACATTCCCTTG
 CTTCTTATTAGACTAGTGGTACTTGGGGGGGACATTATTACAAATGAGAAGTAGGCACAAAGTAAAAA
 ATGGAACCATCTACTAACAAAGGATCCTTAAAATGCCAAGGGAGCTCAACTGAAGCCACATCCTACAGATGG
 CAGCCAAATAGCACATGGCAATTGGCACCCTTATATGGTTAGTCTCTGAATATTGAATGAATTCTC
 AACAAAATGTGCTAGCCACTGGGACGAAAACAAGTAAGATCCCTGTTGCAAGAAATTCAATTATAGTGAGGG
 AGGTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGATCCGTGTTAGATTAGAAGTCCTGATGTGAAATGGGAG
 GACTCAGGAAGGAGGATGCTTACCTGAGGATTCTAGCCAGGGTCCAGATGCCTGGCTGAGAACCCAGC
 GATAAGGGGGCGTCCCAAAGCAGACACAGGGATAAGAACAGAGGAGGCAGCAGCATTGACAGCCCCAGGCACA
 GTGGCAGTTAGGATGGCTGGAGAGTAGGATAGTCTATGGGTTGCCAAAAATGTGATGCGCTCATGTTCT
 CTGACTCATGGATCTGGTAGAGACATGATATAGACTAATTCCCCATTTCACATGAAGGTAAACC
 ATCCTTATGACTACCTTAAAGTTTGTCTGTTGAAGGAAACCATGTGCTCATGAAACCTACAGTTGAC
 AAGAGAATGTACAGCTAACAGAGAAAAGCTTAAGAGGCCACACTATTGCGGAATGGCTTGTAGAGGAGATGAAGTG
 GTCTTGACCACAGTTGATTGAAACCAGAGCACTTATTGCTTAAAGAATAACAGAGTTCTAGAGCTGGGTTCTT
 GGGCATGCTCCGTGTTGATAAGGAAAGGAAATACTGTTCTGGACTCTCCACAGTCACAAAGCTGTTCA
 CTGTGGCCCTACATCTTAACTTTGCTTAACTCTGCTTGTGTTACTGCTGCCTCCGGATTACTGCTGTCTATCTTCTG
 CTCCACTCACTGAAGATCTTAACTTAACTCCATGAAAATGTAATTACAGTTACTGGGAGAGGCCAGATTCT
 CTGTGCTCTGAGTTTATTCAAGAAACCTGGGCCACCGCTTGTACATAGCACCGTGTAGGCTCTG
 GGATCCCAAATGGACCCCTTAACTTCTGAAGATGGGACCGTCCCTGGAGGAAAGTCATTCTGCCTAATCCA
 TCGAGAGAAAGAGGCTTACGAAAATTTGCCTCTGATGCTCAGCCCCACCCCCAAATAGCACACACAGCTGTTA
 ACCCCACCTCTACAAAATGTTAGATTGTTAGGTGTTAAAGCCTTCTGGAAGTATTGATCTGCCGTGTT
 TATAGGTGTTCACTTCCTCCAGAGCTGATTAACACTGACATGACTTGGCTTCTCATCCAGAAATTATGGAAA
 CAGGGCTGTCAGTGGCAGGAGGCCGTGTTACTTGGATGACACAATGAGTTACTGCTCTTCATA
 CCCATGCTGCTCACCTAGACAATGACATATAAGCCGTATATAGATCAATGTCCACATATATACACACA
 CACATATATATATAAGTGTAAACAAGGAACACTAAACAGTGTGATTCTGCTCTGAAGACAAATAATTAA
 ACCTTTTTTCCAACTAAAGAATGGATTAATTAAACTATGTTAGGAAAAAGTAGCCTAAGTGTAGAGA

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FIGURE 585C

TGGTGAATATATCCATTAGTTAAAGAACAAATTCTGAATTAAAGCATTCAAGTGAGCTGCCAATTTGAT
TTGTGTTGCTCTTACCAAATTATTTCTTGTCTTTGGGGAGGAGGGAAAAAGCAGCAA
TACTGTGTTGGAAATTATACTCTGTATCTGGTTTCCTGTATGTTAACCACTAAATGTTATTATCCTGCTT
TGGTTTAGAGTGATTGTGAGGCATTCAATGCAAGTATAACAGTTATTTCTCATTAATCCAATGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAA

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FIGURE 586

MAEAEELHKERLQAI A EKRKRQTEIEGKRQQLDEQILLQHSKSKVLREKWLLQGIPAGTAEEEEEARRROSEEDEF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLKETEKSFKDFQKGFSSSTDGDAVNYISSQLPDLPILCR
TAEPSPGQDGTSRAAGVGWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNYSATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPMHDHPSAFYSPPHNGLTDHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSSPDPMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSTTSSRCSSRDGEFTLTLKKEAKFELRAFHEDKKPSKLFEDDEHEKEQYCIRKVRPSEEMLELE
KERRELIRSQA VKKNPGIAAKWWNPPQEKTIEEQLDEEHLESHKKYKERKERRAQQEQLLLQKOLQQQQQQOPPSQ
LCTAPASSHERAS MIDKAKEDIVTEQIDFS AARKQFQLMENS RQAVAKGQSTPRLFSIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASA AAKQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVS LTQEE LD SGLDEL SVRSQDTVLETLSNDF SMDNIS DSGASNETTNALQENSLA
DFSLPQT P QTDNPSEGRGEVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAI AEQVDKAVSKTS
RDGAEQQGPEATVEEAAA FGSEKPQSMFEPPQVSSPVQE KRDVL PKILPAEDRALRERGPPQPLPAVQPSGPI
NMEETRPEGSYFSKYSEAAELRSTASLLATQESDMVGVGPFKLRSRKORTLSMIEEEIRAAQEREELKRQRQVLQ
STQSPRTKNAPS LPSRTCYKTAPGKIEKVKPPPPTTEGPSLQPDLAPEEEAGTQRPKNLQMQLMEDYETHKSKR
RERMDDSSYTSKL SCKVTSEVLEATRVNRRKSALALRWEAGIYANQEEEDNE

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FIGURE 587A

CCCGGGCGAGCCCCGGTGCACAGCTCTGCCCGCCCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGCGTTCT
 CCCGGTTCTAGCAAAGCCCCCGGGTGCCCCTCAGTTCCCTGGTGACTACAGCGTGTGTTTTCTTCCT
 CTTCCCTGCCCTGTGCCCCCTCCAGGATGGCAGAGCGGAATTGACAAGAAAGGCTGCAAGCCATAGCA
 GAAAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTCTGCTGCAGCAT
 TCCAAGTCAAAGTGCTCGGAGAAATGGCTGTCAGGGCATAACCGCTGGAACCTGCCGAAGAGGAGGAAGCC
 AGGAGGCGCAGTCTGAAGAGGATGAGTCAGAGTCAGCAACTGAAAGATAACATTAGAGGCTGGAGCAAGAA
 ATACAAACGCTAGAAAGTGAAGAGTCAGATATCTGCCAAAGAGCAAATCATCCTAGAGAAACTGAAGGAAACA
 GAAAATCCTCAAGGACTTCAGAAGGGTTCTCCAGTACGGATGGAGATGCACTAAATTACATTCTCCAG
 CTTCCGACCTGCCAACCTCTGTTCAAGCACAGCAGAACCATCACCTGGCAGGACGGGACCAGCAGAGCGGCT
 GGAGTCGGGTGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTGAAACGCCAGAAACATCCGGCCAGAC
 ATGACTATCAAGAACGCTCCCCAGCTTCTGAGGATGATATCTGGCTAAAAGCGAGGGAGACAACATAGTGC
 ACCCTCTGGAGCCTGCTGCCAGCTCTTCCCCAGATCACAAAACATGGAAATTGAGGTGCTGTCAGAA
 TGTAAAAGTGTCTGGAATCACCTCACCCACATCCCAGTGGACCATCCCTCCGTTCTATTCACCCCCGCAT
 AATGGCCTCTTAATGATCACCAACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
 CTAGAGGCCAATGCTGTGATTCTGCTGTTGAGTGGAAACGTACAATGGAACATCCCTCCCCAGAGGCTGGCAGTG
 GTTCTGGTGGCGGCTAACGGCCCCCTGTCACAGGCGACCCAGCCAGAACCCACTGAAAGAACAGCTAGCCGG
 CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCATGGCAGAGGCAGAAAGAACAAATGGC
 TCCCCCAGCCAGCTAGAGATGCGCTGGGGACAGCCTGCAGGTGCTCAGCCCCAGCTCCACAACCAGCTCA
 CGGTGTTCTCCGAGATGGAGAGTTCACTCTCACCAACTGAAAAGGAGGCCAAGTTGAGCTGCGTGCCTTC
 CATGAGGACAAGAACCCCTCCAAGCTCTTGAGGATGACGAGCATGAGAAAGAACAAATACTGCATTAGAAAAGTG
 AGGCCTTCAGAGGAGATGCTGGAGCTGAAAAGGAGAGGAGAGGAGACTCATCCGAGCCAGGGCTCAAGAAC
 CCTGGCATTGCAAGAAAATGGTGAATCCCCCGAGGAAAAAACATCGAGGAGCAGCTGGACGAGGAACATCTG
 GAGTCGCACAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAACAGTTA
 CAGCAGCAGCAGCAGCCCCATCGAGCTGACAGCCCTGCCCTCATGAACCGCAAGCATGATT
 GACAAAGCAAAGGAGGACATTGTCACAGAGCAGATAGATTCTCTGCTGCTGCAAACAATTTCAGCTGATGGAG
 AATTCCAGGCAACGGTGGCCAAGGGCAGAGTACACCCAGGCTGTTCCATCAAGCCTTCTACAGGCCTCTG
 GGGTCAGTCACACTCAGACAAGCCACTGACTAATCCGAGACCACCTCTGTCGGGGACCTCCAGAACAGACTGGT
 GCCTCAGCCGCCAACGGACAGAAATCCCCGGTCCCTGGAGACCCATGGCAGCAGGAAGCCAGGGCAACACA
 GCCTCTCAGGGGAAGGAAGGCCCTACAGCGAGCCTCTAAACGTGGCCCTTATCTAAACTGTGGCAGGAT
 GGAGAATTTCAGAGCAGCCCCGGCTGTCTCACTGTGGTCAAGGATGATGACCATGGGATTGGATCAGTTCTCA
 AGATCTGTCATGTCTCTTGACCCAAGAGGAGCTGACTCTGGTCTGGACGAATTGTCGGTGGAGGTCTCAGGAT
 ACCACAGTCCTGGAGACCCATCCAATGATTTCTGACGATGGACAACATCAGTGCACAGCGGGCATCCAATGAGACA
 ACCAATGCCCTCCAGGAAAATTCACTGGCTGATTTCTGCCCCAGACACCACAAACTGACAACCCCTCAGAG
 GGCGAGGAGAACGGCTCTCAAGTCATTAGTGCATGGTTCTATTCCCTCCAGCTGGGGACTCT
 CGTTGGTTGATGACCCCTGGAGTATCAGGCTGGCTCCCTGGTGCAGAATGCCATTCAACAAGCCATAGCCGAG
 CAGGTGGATAAAGCTGTGTCAAAACCAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
 GCTGAAGCTGCGGTTTGGCTCAGAAAAGCCTCAGAGCATGTTGAGCCACCTCAGGTGTTCTCTGTTCAA
 GAGAAAAGGGATGTATTACCAAAGATTCTGCTGCTGAAGACAGGGCCTCAGGGAAAGGGGCCCCCAGCCA
 CTGCCAGCTGTGCAAGCCAGTGGCCGATTAACATGGAGGAGCAGGCCAGGGAAAGCTATTCAAGCAAGTAC
 TCGGAGGCAGCTGAGCTGAGAACAGCACGCTCCCTGGCCACTCAAGAACATGACGTGATGGTTGGCCTTTC
 AACGCTGAGGTCCAGGAAACAGCGGACTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAAGAG
 GAGCTGAAGAGGCAGAGACAAGTCTGAGTACGCAGAGCCCCAGGACAAAGAACATGCCCATCACTGCCCTCC
 AGAACATGCTACAAAACGCTCCAGGAAAATAGAGAACAGTCAAACCTCCATCCCCCACCACACTGAAGGCC
 AGCCTGAGCCTGACTTAGCCCCCTGAAGAGGCTGCCGGAACCCAGCGGCCAAGAACATGATGCAAGACCTCATG
 GAAGACTATGAGACACACAAATCTAAAGGCGCAGAGAACATGGATGATAGTAGTTACACTCTAAGTACTGTCT
 TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGGTTAACATGAAAGAACAGGCCACTGGCTTGCCTGGAA
 GCAGGGATCTATGCCAACCCAGGAGGAAGAACACAGAATAAACTTCCCTCAACCCAGGAAGCGTCTTGGTGCT
 TGGGAGACCAAGAACCAAGAAATTAAACAACGATTAAATGGACTATTATTAAAGTGCACAAACAAACTC

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FIGURE 587B

AGCAATCCTTATGTAGACCAGAAGCTGAAATACAAATGATGAAAATGAAACGAAAAGGAAGTCCCCCATCAGA
 CTCTGGACACCCAGGAATCAAAGAGAAAGGACTTTGGTACTCAATCCCAGTGTCTGGTTGGGCCAATC
 TACAATGGATCCAAAAGGACAAACATGTTACAAGCAAATCAACATAGTGCTGCAGGCCAACTGAGACCAGCC
 TCTCTGGCGATGAAGGACAATGGTGGTAGGCCACTTAGAGAGCAGTAGGGCCAGGCTGGTCAGCCTACATG
 GCACAGGATATTCCCTGCACCAGTTCCACCTGTCACTTGCAAGCATCAGAGGGTGTGCATTAACCTCCATT
 CTCCAGCAGCCATAAAATGAATGGCGTTCTCCATATTGCCAGAAGAGGCAGTTATGATTCCACCTCTCCT
 ACATTTAATTATTTAATTGAGAACAACTCATGATCACAACTCATAAAATCCATATTAAAGAACATAGTCTT
 CATGTCACAAACACAATCTATTCTACATGAGGAGGCTGAGAAAGGGAAAGAGAAAAACAAACAAATGGATGATG
 TTAGCTTAGGATCGTCTGCTTATAATATTCACTGATCTGCAGTTATGAGAACACATTTCACAGTTATGTT
 TCTTCATAGGAAACACTATTTAGTGGCAACAACTATTATGATGGATGGGGAGTATATACACGTATAGA
 ATCTGTACGCGTTGAACAACCTGGTCAAGATGGGGCATTTAGAGCGGAATAATTGAAAAAAAGGCG
 AACTCTGCCCTGGAGAGGTAGATGATAAGAAATAAAAGGTGTTATAACTATTGTATTATAAGTGGCCTT
 AGAGATAGGAAGAAGAATGATGGATTCCCTTGATCAATCAGAAAGGAAACAGGAAAGAAAAGTCAGGAAGGTA
 GAGAGAGAAAAGGGAGGGAGGAGAACATGGAATAAAATAAGGAGGTAAGAGATACTATTGTGAGCA
 ACCAGTGTGTTTCAGGATGATAAAAGAAAATAAGAATAGAAATAAGTCAGGCTTGGATCAGCTACAAATC
 CTAAAGATGGGTGTGATGTTGATGTTGATGTTGATGTTGATGTTGACACCATTGTGTTGAAAATGTGATGTTCA
 TGAGTAAGGGTGTGTTGATGTTGATGTTGATGTTGATGTTGACAGGTAACTCCTGGTGTACAGGTAACTCCTC
 AGAGCTGTTGCTGGCTTCAGGAGTGGAGTGAGAATTCTTTATGAAAGGATATAAGGCACCGAGCTGA
 TGCAGTATTGTAATATTGACCTAACAGGTATTGATGAGTCACAATTACAAAGTTGAGCGTTT
 GTAATTGACATTAGGAAAGTCTCTATTATTCTCATACTTTACATTGCTTAGTATAACTATAGAGGATGC
 CAGCTTAATCTGTCATTAAAGCCATATGATAAGGTATTCAATAATTGGGTGCCCTAAATTCTGGATG
 AGAAAATTTCATTCTGCCATGAGAAAGAAAAAAATAACAGCCTCTTTTTCTTGTGTTAAAAC
 TGTGGTTTTAAAAAGCAATAATTCAACTCAGACCTCACTAAAATCATTGTTTATATTGTATGTCAT
 AACGCTTATTATGTTATTCTAACAAAGTAGCAATTTCACAAATTGTGTTAGATGTTAACGCACATTCTGTTG
 CTTCTTTATTAGACTAGTGTGACTTGGGGGGGACATTATTACAAATGAGAAGTAGGCACAAAGTAAAAA
 ATGGAACCATCTACTAACAAAGGATCCTTAAAATGCCAAGGGAGCTCAACTGAAGCCACATCCTACAGATGG
 CAGCCAAATAGCACATGGCAATTGGCACCATTCTTATATGGTTGAGTCTCTGAATATTGAAATGAAATTCTC
 AACAAATGTGCTAGCCACTGGGACGCAAACAGTAAGATCCCTGTTGCAAGAAATTCAATTGAGGG
 AGGGTGGCATGGAGACTAAAATTCTCAGGAAATGAGATCCGTGTTAGATTAGAAGTCCTGATGTGAAATGGGAG
 GACTCAGGAAGGAGGATGCTTACCTGAGGATTCTAGCCAGAGTCCAGATGCCTGGCTGAGAACCCAGC
 GATAAGGGGGCGTCCCAAAGCAGACACAGGGATAAGAACAGAGGAGGCGAGCATTGACAGCCCCAGGCACA
 GTGGCAGTTAGGATGGCTGGAGAGTAGGATAGTCTATGGGTGCCAAAAATGTGATGCGCTTATGTTCT
 CTGACTCATGGATCTGGTAGAGACATGATATAGACTAACCTCCCATTTCACAATGAAGGTAACC
 ATCCTTATGACTACCTAAAGTTTGTCTGTTGAAGGAAACCATGCTCATGAAACCTACAGTTGAC
 AACAGAACATGTAAGGACTAACAGGAAAGCTTAAGAGGCCACACTATTGCGGAATGGCTTAGAGGCAGATGAGT
 GTCTTGACCACAGTTGATTGAAACAGACACTTATTGCTTAAAGAATAACAGAGTCTAGAGCTGGGGTCTT
 GGGCCATGCTCGTGTGGATAAGGAAAGAAATCTGTTCTGGACTCTCCACAGTCACAAAGCTGTTCA
 CTGTGGCCCTACATCTTAACTTTGCTTATTACTCCTATGCTGCCTCCGGATTACTGCTGTCTATCTCTG
 CTCCACTCACTGAAGATCCTATTATAATCCCATTGAAATTACAGTTACTGGGAGAGCCAGATTCT
 CTGTGCTCTGAGTTTATTCAAGAACCTGGGCCACCGCTTGTACATAGCACCGTGTAGGCTCTG
 GGATCCCAAATGGACCTTTAACTTCTGAAGATGGGACCGTCCCTGGAGGAAAGTCATTCTGCCTAATCCA
 TCGAGAGAAAGAGGCTTACGAAAATTTGCCTCTGATGCTCAGCCCCACCCCCAAATAGCACACAAAGCTGTTA
 ACCCCACCTCTACAAAATGTTAGATTCTGAGGTGTTAAAGCCTTCTGGAAGTATTGATCTGCCGTGTT
 TATAGGTGTTCACTTCCTCCAGAGCTGATTAACACTGACATGACTTGGCTTCTCATCCAGAAATTATGGAAA
 CAGGGTCTGTCAGTGGCAGGAGGCCGTGTTTACTGGATGACACAATGAGCTTACTGCTCTTCATA
 CCCATGCTGCTCACCTAGAACATGACATATAAGCCGTATATAGATCAATGTCCACATATAACACACA
 CACATATATATATAAGTGTAAACAAGGAACACTAAAACAGTGTGATTCTGCTCTGAAGAACAAATAATTAA
 ACCTTTTTTCCAACTAAAGAACATGGATTTAATTAAACTATGATTGAAAAAAAGTAGCCTAAGTGTAGAGA

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FIGURE 587C

TGGTGAATATATTCCATTTAGTTAAAGAACAAATTCCTGAATTTAAGCATTCAAGTGAGCTGCCAATTTGAT
TTTGTGTTGCTCTTACCCAAATTATTTTCTTGTCCCCCTGGGGAGGGGGAAAAAGCAGCAA
TACTGTGTTGGAAATTATACTCTGTATCTGGTTTCCTGTGTATGTTAACCACTAAATGTTATTATCCTGCTT
TGGTTTAGAGTGATTGTGAGGCATTCAATGCAAGTACAGTTATTTCTCATTAATCCAATGTGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAA

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FIGURE 588

MAEAEELHKERLQAI A EKRKRQTEIEGKRQQLDEQILLQHSKSKVLREKWLLQGIPAGTAEEEARRROSEEDEF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIITLEKLKETEKSFKDFQKGFSSSTDGDAVNYYISSQLPDLPILC
TAEPSPGQDGTTSRAAGVGWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNYSATLLEPAASSI
SPDHKNMEIEVSVAECKSVPGITSTPHPMDDHPSAFYSPPHNGLTDHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHELNSSSPDPMAEAERTNGHSPSQPRDALG
DSLQPVSPSSTTSSRCSSRDGEFTLTLKKEAKFELRAFHEDKKPSKLFEDDEHEKEQYCIRKVRPSEEMLELE
KERRELIRSQA VKKNPGIAAKWWNPPQEKTIEEQLDEEHLESHKKYKERKERRAQOEQLLQQLQQLQQQQQOPPSQ
LCTAPASSHERAS MIDKAKE DIVTEQIDFSAARKQFQLMENSRQAVAKGQSTPRLF SIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASA AKGQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVS LTQEE LDG LDELSVRSQDTVLETLSNDFSM DNIS DSGASNETTNALQENSLA
DFSLPQTPQTDNPSEGRGEVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPEATVEEAAA FGSEKPQSMFEP PVQSSP VQE KRDVL PKIL PAED RER GPP QPL PAV QP SGPI
NMEETRPEGSYFSKYSEAAELRSTASLLATQESDV MVGP FKLR SRK QRT L S MIEEE IRAA QERE EEL KRQ RQV LQ
STQSPRTKNAPS LPS RT CYKTAPG KIE KV KPPP SP TTE GPS L QPD LAPEE AAGT QRP KNLM QTL MEDYETH KSKR
RERMDDSSYTSKLISCKVTSEVLEATRVNRRKSALALRWEAGIYANQEEFDNE

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FIGURE 589

TTGCTGCATAGATTACAACGGTGATGGCGGGCAAGCGGTCCGGCTGGAGCCGGGCGCTCCCTCCAGCTCCTTC
TCGGCGTGAACTGGTGGTGATGCCGCCACCCGGGCGGAGTCTGCCTCGTTACCTTGCTGTACGCCATG
GAGACCGTTCACCAGTGAAGACATATCCAAGGACCCCTATCAGGAAGAAGAATGGCCCCAGGGGTTGGTCAGT
TAACCAAGGAGGGATGCTACAGCACTGGGAACTGGGCCAGGCCCTGCGCAGCGCTATCACGGCTTCAAACA
CCTCTTATCACCGGCAAGAGGTTATGTGCGAAGCACAGACTTGACCGGACTCTCATGAGTGCTGAGGCCAACC
TGGCTGGACTCTCCCTCCAACGGGATGCGCGCTCAACCGAACATCTGTGGCAGCCTATTCCGTGACA
CTGTGCCCATACTGAGGACAGGCTGCTGAAGTTCGGTGGGCCATGTCCCCGTTATGAGCAGCTGCGAACG
AGACCCGGCAGACACCAGAGTATCAGAATGAGAGTCTCGGAATGCACAATTCTGGACATGGTGGCCAAGGAGA
CAGGGCTTACAGACCTGACACTGGAGACCGTCTGGAATGTCTATGACACACTCTCTGTGAGCAAACGCCACGGGC
TGCCTGCCGCCCTGGCCTCACCCAAACCATGCAGCGTCTAGCCGGCTAAAGGACTTCAGCTTCCGCTTCC
TCTCGGAATCTACCAGCAGCGGAGAAGGCCGCTCAGGGGGAGTCCTGCTGGCTCAGATAAGGAAGAAC
TGACCCTAATGGCACCACCTCCCAGCTCCCCAAGCTGCTGGTTACTCTGCGCAGCACACTACCCCTGGTGC
TGCAAATGGCACTGGATGTCTACAATGGTGAACAAGCCCCCTACGCCCTGCCACATATTGAACTGTACCA
AAGATTCTGGAATTCTCAGTGGAGATGTACTTCGGAACGAGGTGACAAGGCCCCCTGCCGCTAGCCTGC
CTGGCTGCCCTACCGCTGCCACTGCAGGACTCCCTCGCCTCACAGAGCCCGTGCCAAAGGATGGCAGC
AGGAGTGCCAGCTGGCAAGGGCTGCAGACACAGAGGTGATTGTGGCCTGGCTTATGTGGCTCCATCCCTCT
TCCTCCTCATAGTGCTCCTCACCGCTCTCTCCGGATGCAGGCCCTCTGGCTACCGCCACGTCGCAG
ATGGGGAGGACCACGCCTGACAACCACTCAGCCCCCTCCCCACCTCAGGGGAGGTGGCTGGGCCCTCGC
TCCTGACTGTGCTCCCCAGCCATGGACAGGGAGATCTGGGTTGGCCTCCCTGTATGTGACCCAGCC
TGAGCGAGTGGGGCTCAGCGTGGCCATGGTGCCTGTACTCAGCATCCCATGCCTGTATGTTACCAAGTGTCG
TGTTGGACACTGGTTCTCCAAACAGGATTTGCCTCCACGCTCCACACACCTGAGATGTAAACTGGCAG
TCAGTGTTACTCAGGACCTAGGATAGAAATGGCAGAGTGGGTCTGGATCCACCTGCACTTATCAAGCC
CTGTTCTTTTCCCCAGCCCTGAAGGTCTCCGGAAATAGCTCAGAGGACACGGCTTGCCCTCTCAGTGTTT
TTAGTGGAAAACAGCTAATACCACAGGGGTACAAACATTGGCTCCAAAGGACTGGATCACCCACAGCC
GCCACATTCCCTGTGTCTGGCTAGAGCCCATTAGACTCAGACAGAATGCTAGGAATCGTGTCACCCT
CAACTGGAGGCAGGACGGAAGGTTGTCTGTACTTTGGAGGGGAGGTGGAGGGGAGTTGTCTGTCACA
CGAAATCAGGAAACTGCTCCCTCAGCGGGTGGGTCTCCAGGGACCTGAGCTACATGCAGGTGTGAGCTTGG
AAAAGAAAGTTCTAGACGTGGCCCAGAATAGGGCTGGGGCAGCTCCCAGAGAATGAATAGTGTTTCTATT
GGACTGATA

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FIGURE 590

MAGKRSGWSRAALLQLLLGVNLVVMPPTRARSLRFVTLLYRHGDRSPVKTYPKDPYQEEEWPOGFQOLTKEGMLQ
HWELGQALRQRYHGFLNTSYHRQEYYVRSTDVRTLMSAEANLAGLFPPNGMQRFPNPISWQPIPVHTVPITEDR
LLKFPLGPCPRYEQLQNETRQTPEYQNESSRNAQFLDMVANETGLTDILTLETVWNVYDTLFCEQTHGLRLPPWAS
PQTMQRILSRLKDFSFRRFLFGIYQQAEKARLQGGVLLAQIRKNLTLMATTSQLPKLLVYSAHDTTLVALQMALDVY
NGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCPHRCPLQDFRLTEPVVPKDWWQQECQLASG
PADTEVIVALAVCGSILFLLIVLLTVLFRMQAQPPGYRHVADGEDHA

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FIGURE 591A

CATTCATAAGACTCAGAGCTACGGCCACGGCAGGGACACGGGAACCAAGACTTGGAAACTTGATTGTTGTGGTT
 CTTCTGGGGTTATGAAATTCAATTAAATCTTTTTTTCCGGGAGAAAGTTTGGAAAGATTCTCCAGAT
 ATTTCTCATTTCTTGGAGGACCGACTTACTTTTGGTCTTATTACTCCCCTCCCCGTGGGACC
 CGCCGGACGCGTAGCTAGCTAGCTACAGCTACAGGGACAGCGCTTCTGCCCTGGGGAG
 CAACCCCTCCCTGCCCTGGGCCTACGGAGCTGCACTTCAAGAGGTACAGCGCATCTGTGGGGCTGG
 GCACCGCAGGAAGACTGCACAGAAACTTGCCTAGTGGAAACGGGACGTTGCTCTCCCCGAGCTCCCCGGA
 CAGCGTACTTGAGGACTCGCTAGCTCACCGGGACTCCCACGGCTACCCCGAGCTGCACCTTACTCCCCA
 ACCCGGCCATAGCCTTGGCTTCCCAGGACCTCAGCGTGGTACAGGGGCCCCCTGTGCCAGGGAA**ATG**TT
 AGGCTTCCCCGGAGACTACGACTCCGGCTCCCGTGCAGCTCCTCACCCCTGCCGAGTCTCAATATCTGTCTT
 CGGTGGACTCCTCGGAGTCCACCCACCGCCGCGCTCCAGGAGTGCAGCTCGGGAAATGCCCGGTT
 CCTTCGTGCCACGGTACCCGATACAACCAAGCCAGGACCTCCAGTGGCTTGCAACCCACCTCATCTCTT
 CCATGGCCCAGTCCCAGGGCAGCCACTGGCCTCCAGCCCCGGTCGACCCCTACGACATGCCGGGAACCA
 GCTACTCCACACCAGGCATGAGTGGCTACAGCAGTGGCGAGCGAGTGGCAGTGGTGGCCTTCCACCAGCGGAA
 CTACCAGTGGCCTGGCCTGGCCAGCCAGCCGGCTAGGAGACCCCGAGAGGAGACGCTCACCCAG
 AGGAAGAGGAGAACCGAAGGGTGCAGGGAAACGAAATAAAACTAGCAGCAGCTAAATGCAGGAACCGGGGAGGG
 AGCTGACCGACCGACTCCAGGCAGACAGATCAGTTGGAGGAAGAAAAAGCAGAGCTGGAGTCGGAGATCGCCG
 AGCTCCAAAAGGAGAACGGTCTGGAGTTGTCTGGCCACAAACCGGGCTGCAAGATCCCCTACGAAG
 AGGGGCCCCGGGCCCCCGTGGCGAGGTGAGAGATTGCCGGCTCAGCACCCGCTAAGGAAGATGGCTTCA
 GCTGGCTGCTGCCCTCCCGACCACCGCCCTGCCAGACCAGCCAAGACGCAACCCCAACCTGACGG
 CTTCTCTTTACACACAGTGAAGTCAAGTCCTCGCGACCCCTCCCCGTTAACCCTCGTACACTCTT
 CGTTTGTCTCACCTGCCGGAGGTCTCCCGTGTGCCGCCCCAACGCAACAGCGCAGTGCACAGCTTCCG
 ATCCCCCTGAACTGCCCTCCCTCGCTCG**TGA**ACTCTTACACACACAAACACATGGGGAGA
 GAGACTTGGAGAGGAGGAGGAGGAGAAGGAGGAGAGAGAGGGGAAGAGACAAAGTGGTGTGGCCTCCC
 TGGCTCTCGTCTGACCCCTGCGGCCACTGCCATGGACAGGGAGGATTCTGTGTTTGTCTG
 CCTCTGTTCTGTGCCCGGCCAGGGCCGGAGAGCTGGTACTTGGGACAGGGGGTGGGAAGGGGATGGACAC
 CCCCAGCTGACTTTGGCTCTGACGTCAACCAAGCTTGGGATGGTGGGGAGGGGGGGTGACGCCA
 CCTTCGGGAGTCTGTGAGGATGAAGGGACGGGGGGAGGTAGGCTGTGGGTTGGAGTCTCTC
 AGAGAGGCTAACAAAGGAAATGCCACTCCCTACCCATGCTCCACACCCACCCCTTTGGGGTGCCCCAG
 GTTGGTTCCCTGCACTCCGACCTAGCTTATTGATCCCACATTCCATGGTGTGAGATCCTCTTACTCTGG
 GCAGAAGTGAAGCCCCCTTAAAGGGAAATCGATGCCCTAGAATAATCTCATCCCCCACCAGACTCTTT
 GAAATGTGAACGTCTCTCTGACTGTCTAGCCACTCCCTCCAGAAAAACTGGCTGTGATTGAAATTCTGGCC
 TCCTAAGGCTCCCCACCCCGAAATCAGCCCCCAGCCCTGTTCTGATGACAGTGTATCCAAGACCCCTGCCCCC
 TGCCAGCCGACCCCTGCCCTGGCTTCTCGTGGCCGCTCTGATTTCAGGCAGCAGGGCTGCTGTGATGCCGTCC
 TGCTGGAGTGTATTACTGTGAAATGAGTTGGCCAGATTGTGGGTGCACTGGGTGGGGCAGCACACCTCTGG
 GGGGATAATGTCCCCACTCCGAAAGCCTTCTCGGTCTCCCTCCGTCCATCCCCCTCTTCCCTCCCTCAAC
 AGTGAGTTAGACTCAAGGGGTGACAGAACCGAGAACGGGAGACAGTCCTCATCCACGTGGCTCTCTCTC
 TCCTCAGGACCCCTAGCCCTGGCTTTCTTAAGGTCCCCGACCAATCCCCAGCCTAGGACGCCAACTCTC
 CCACCCCTGGCCCTCACATCCTCTCAGGAAGGCAGTGGAGGGCTGTGACATTTCGGAGAACGAGATTCAAG
 GCTGAGGCTTGGTACCCCCAAACCCCAATATTGGACTGGCAGACTCAAGGGCTGGAAATCTCATGATTCC
 ATGCCCGAGTCCGCCCATCCGTACCATGGTTGGCTCTCCACCCGCCGTTCCCTGCGCTCATCTCATGAG
 GATTCTTATGAGGCAAATTATTTAATATCGGGGGTGGACCACGCCGCCCTCCATCCGTGCTGAGT
 AAAAACATTCCACGTGCCCTGTGCGCGTCTCCATCCTGATCCCAGACCATTCTTAGCTATTATCCCTT
 TCCTGGTTCCGAAAGGCAATTATATCTATTATGTATAAGTAAATATATTATATGGATGTGTGTGCGTG
 CGCGTGAAGTGTGAGCGCTCTGCAGCCTCGGCCCTAGGTACGTTGGCCCTCAAAGCGAGCCGTTGAATTGGAA
 ACTGCTTCTAGAAACTCTGGCTCAGCCTGTCTGGCTGACCCCTTCTGATCGTCTGGCCCTCTGATTGTCT
 CCGATGGTCTCTCCCTCTGCTTTCTCCCTCCGCTGTGTCATCTGACCGTTTCACTGTCTCCCTCTGA
 CTGTCCCTGCCAATGCTCCAGCTGCGTGTACTCTGGGTCGTTGGGGACATGAGATTATTTTGAGTGT
 AGACTGAGGGATCGTAGATTTACAATCTGTATTTGACAATTCTGGGTGCGAGTGTGAGAGTGTGAGCAGGG

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FIGURE 591B

CTTGCTCCTGCCAACACAAATTCAATGAATCCCCGACCCCCCTACCCCATGCTGTACTTGTGGTTCTCTTTTGT
ATTTTGATCTGACCCCAGGGGGCTGGGACAGATTGGCAATGGGCCGTCCCCTCTCCCTGGTTCTGCACTGTT
GCCAATAAAAGCTCTTAAAAACGC

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FIGURE 592

MFQAFPGDYDGSRCSSPSAESQYLSSVDSFGSPPTAAASQECAGLGEMPGSFVPTVTAITTSQDLQLVQPTL
ISSMAQSQQPLASQPPVVDPYDMPGTSYSTPGMSGYSSGGASGSGGPSTS GTSGPGPARPARPRRPREETL
TPEEEEKRRVRERNKLAACKCRNRRRELTDRLQAETDQLEEEKAELSEIAELQKEKERLEFVLVAHKPGCKIP
YEEGP GPGLAEVRDLPGSAPAKEDGFSWLLPPPPLPFQTSQDAPPNL TASLFTHSEVQVLGDPFPVNPSY
TSSFVLTCP EVSAFAGAQRTSGSDQPSDPLNSPSLLAR

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FIGURE 593A

CGTGCGGCGGTGGCTGGCTTCCGCGGCCGGCGTGCAGCAGCGGGAGGGTGGCGCGCGGGAGCGGGATGG
 AGCTGGGGCGACCCCTGCTGGAGGTACTGGCCTCAGCCCTTCTCCCCTTCCCCACCCCTTACCCCCAGATT
 ACATTCTCTGTGGTGTCTTACTGCAGATGAAGGATTGGGGCAGAGCACTGGCAGGTATGAAGGGTCC
 AACTTCTCGGGTTGTTGAACGTCTACCTGAAACAAGAAGAGAGATTCCAACCTCGAGAAAAAGGGCTGAGTTGA
 TTGAGGCTACCCCGAGAATGATAACACTTGTGTCAGGATTGAGAAATGCCAAGTGAAGATTAAAGGAGTT
 TAGCCAACCTTTGGATCTGCACTGAAACTTTGTCCTGGCTGTCAATATTGGACAGGTTCTGGCTCTTA
 TGAAGGTGAAACCTAACATTTGTCTTGCAATTGGAGTCTGTCTTTTGCTGGCTGCTAGAATAGTTGAAGAAG
 ACTGCAATATTCCATCCACTCATGATGTGATCCGGATTAGTCAGTCAAATGTAATGACTGCTCTGACATAAAACGGA
 TGGAAAAATAATTCAAGAAAATTGCACTATGAATTGAAAGCTACTACTGCCTAAACTTTGCACCTATACC
 ATACTATTATACTTGTCAACTTCAGAAAGGAAAGAAATACTGAGCCTTGATAAACTAGAAGCTCAGCTGAAAG
 CTTGCAACTGCCGACTCATCTTCAAAAGCAAACATCTGTATTAGCCTGTGCTTCTCAATTGGAAGTGG
 AAACTTGAAATCTGTTGAATTACTGAAATTCTCTGCTAGTTAAAAAACATTCAAGATAATGACACTGAGT
 TCTCTACTGGAGAGAGTTGGTTCTAAATGCCCTAGCCGAGTATTCTCTCCTGAATGTTGCAAACACCAGATCTTA
 AGAAGTTGGTTGGATCGTTCAAGGGCACAGCCCAGAACCTCCACAACAGCTACTATAGTGTGAGCTGC
 CAACGATACCTGAGGGGGGTGTTGATGAAAGTGAAGTGAGGACTCTGTGAAAGATATGAGTTGAGGAGG
 AGAGTCTCAGCAGCTCCTCCCAGTGTCAAGAGTGACCTCTTCAACTCAAAGTGGCACAAACACTGT
 GCTTCCATCTTAGAAATCTGATTGTTCTGTCAAATTATTTACAGGTTCAAAGCAATAATGGGGAATA
 GGTAGTTCTGGTTAGCCCCATCTAGTCAGGAATTAAATATACTGAAATACCTACCTTCTATTGTTATTCAAG
 ATCAGATCTGCCATTTCATATTCTAAGCCATCAAATGGGTAGTGCCTCTTAAACCATTAAACAGTACT
 TTAGACATTGGCACTTATTTCCTCGTAGATCTTAGCTACTTTGGGAGGAGGGAGGTGCTGATACCTTCAA
 TTTGTTACTTTCAAGATTTAAAATAACTAGTGTAGCTTATCTTAAACATTATAAACCTTCAGATGTCT
 TTAAGCAGATTGAAAGTATGCAAGTGCTTCTTAGCAGGGACAGTGGATAATCCTTAATGGTTATCATAGATT
 CACCCTCCCCCTCTCAGAAGAGTGAGTATGCTTAAATGTCAAACACATTTTGTTGTTGTTTAAAT
 GATCAGTGTCTATTGATGTGATGCAAGATCTTAAATTTGGGAAATTATAATATTGACATTCTGTGATT
 ATATGTAATGTCTTAATTGAGATTCTGTTAGGCAGAAATAATTAGGCTAGGGCTTCTAGTTTCAATT
 GCCCAAGTATTGTCAAACTATGGTATTATTAAATGTTACTTTAAAATCCATAATCTGCTAGTTGCATGTAC
 TTATATGAAAACAGTGCAGTAAGTGAAGAAACTCAGTATCTATGAAATTGATAATGTTGATCTGGTAGTATAT
 TTTATCGCATTCTTATATAAAATGTCTGCATGATTACATTTCCTTGTAAATTACATTTCAGAAT
 AGTGTATTGCTATATGGTCCAAGATTGAATATGAAGAACCCGAGTGGTAGTATTATAGTTAAGCAAAT
 CTGTGTGGTGATACAGCCATAAGAATGGGCTTATATAAAACTCTGTACATGTAAGATTGTCAGAGAAATT
 AACTTTATAAATTGTATATGAACATGTAATCTTTAAAATGTACATAAAACTGTATTGTTACCTTGTG
 TGATAGTCTAGTCATTGCATGTAATATAATTATTGTTCTGTAGTATAAATCATACATTGATGACTTACA
 TTTTACTGGTAAGTCAACATCCGTTGGATTTCTGAAGTGGCTTTGAAGTGTATAAGATTGAAATT
 AAAATAAAATTATTAAATGAATTCTCCTGTTGGGATCACATCTTAAATTAACTGTTAAAGTCTTGTGATGT
 ATTAAATGAGAAGACTTAGGTGAGGCTACAGTGTGATTCCAGAGTGAGCCTCTAACTGGCTAGCAGAAGTCTC
 TAGGTTGGCATCTGCGCTGGAGAATCTGTCATTGACAATTGACCTTGTGGAGTGGGA
 CTCATTAAGTATGCTCTCAGAGACTGGTATATTACAGAATGCCATTAAATTTCAGTGGAGAGGCAACAGGTATT
 AAGTAGAACAGAACGTCAGGTGGCAGATTAGAACGATCTTCAGGAGACAAAGCAAGTTAATCAGTTGTT
 GTTTAATAAGTATGGGTGTTGCTGTGATAGGGCCCCGCCAGCTCTGGCTTGTGGACCTCAAAGTATCAG
 GTGGTTTGCAAGTGGTGGCTTCCCTGCCCCACCCCAATAGGTTCCCATGTCAGTTGATTTGTA
 GACCTTGTCTCTAGTTAGAAATCAGGTACACTGAAATATGGTTCATGTAACACCTCTCTGGAGATA
 GGGGTATTTCTACCCCTAGTGGAGAATCTACTTGAGGATGACCTTCTTACTAAATAATTAA
 GTAAATAGTGGGCAATATATTGCTTCAGATTGATTGTTGAGATGAAAGTTGTTGGGCTTACCAA
 TCTCAAGACTCTCTTAGCTCTGCAGGATTGATTGCTTACTGGATATTTCCTGGTAAGCATCTT
 GTGGCTTCTCATCTCTCCCCCTGTTGAGTCTGATTACTCCAAACCTGCTGGTTCTTATGTCCTTCTCAGC
 TTCACATGGCCTGCCATGCCACTTGGAGGTTCTGATTACTCCAAACCTGCTGGTTCTTATGTCCTTCTCAGC
 GAATAATTCCATCTGTTCATGTTGGAAACTTAGGTGATATGTCATCTCTTGTGTTATGGAGGTCACCA
 GCCTCTATCATTGTATGTTACACTGTTATATCTCTGTCCCCCTTTCTGCCATTGGCATTGGCATGGT

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FIGURE 593B

TTAGACCTGTACTCTTATCAGCAGAGGTACTGTAATATATTGTGATCCCTCAGCTTCAGGCTTACTCCTGGT
CTCTGCCCTCCTATCTACATATCCTTTAAAATAAAATTTAACTATCTCCTGAAAATTGTTGAGTAGGTCACG
CACAATCAGGAGAAAATCTATTGACATACAAGTCTGTCTAACTGAAACACTGCACCTGTCTGGCCTT
TTTTCTTGTCTTCTAGACCTAAAAATGTGTATTGAGAAAGAACTCTGTAGCTATAACAGAAGATGAAC
GGGCAATATAGAGTAGCAGCATGGAGACCAGTCTGACTGAACTAAGGAGTGGAGTGAGGAGAGAGG
TGAAAATTGAGAACGCTATCCTTCTTTGGCATTATTAGGAGGCTCACAGACAAGTCCAGGAGTCTGGTTA
TACCCCTGTGCCATTCAACCAGGTGGCTTCCATGACTGTGATGAATAAAATTGAGAACGCCCTGCCCTTT
CAGAGCAGAGGGTGGAGGAGAAAGCTACCATTTGCTCTACCTTACCCCCGTTGACTTGGCGAGAGATTGACC
TTTCAGGTTTGATCCTGTCTTCTAGGATGTGGTCACGCACCTGCTGTCATGGTGAAGTATTGTC
CTAGGTCTGGCTTCATCTGTTGGCTGCTACTGTTCCCTCCCAGGAAGTGTGGTTAGACAAATAATG
TGTTTAATTACCTGTACACTCAGGATTAATACATACTCAGGTTAACTGTAGAGAGGCATTGGCTCAGAACAC
TCCTCGTACAATTAAACCATTCTTGTCTAGAGTCTGCCTTTCTTTACAATTCTTTATTCAAC
ACTAGGTTCAATATGGTCTCTGCTACCTCCCACCTCCCTCCATCACACATGCAAATTGTCAGCTTA
TTGAGACAACCCACTTAGATTCAATATGGACAAGGACAAGGTATTGCTTACTGGAATTCACTGTTCC
TAACATTACTACCAGAAATGGTCAATAACTACTTGTGGTTAGCAAATCAAATTGTGTGATAGATAGTTCC
CAGTATGATGGCCAGTCAGCTTCCATCCCTGTGCCTACATGCTGCTTCCCGTCCACAAGTGGAGTCTGTT
CTCTTGAGTTGGCTGGCCTTATGAATGGCTTACTGAAAGTGCAGCAGAAGAAATTAGTATATGTC
GCCTAGGCTTAAGAGACTGGCAGCTTCCCTTATCCTTTGGAAGCTAGCCACCATGCTGCAAAGAGCTCA
GCTGGATTACTGAAAGATGAGAGGCCATGTGGAGAGAGACTCTTGAGGATGAGAGATTATCTGGATGTTCCAGC
CTTAAGCTCCAGCTGAATGTGGGTGATCCTCAGCTACACCACAGAAAACAGAGGAACACTCAGTC
GATCCCAATCAACCCACAGACTCACTAGAAATAACAAATTATTGTTAAGCCACGAGGTTGGGGAGGGTTAAACA
GTAATAGATAAGTGAGACAGATTGCTTGTATTATGGTCAAATGGTATTCTCTGGTGAGATTACAGGTGAT
GTTTTTTAAGTTATGCCTATCTGTAGTTCCCTTTTCTAAATTGATTGAATTATTAGTGTATTAACAG
ATAAAAGAATGAACCTTAAACACACACGCTGGTTATGCTTCTCTAATTAAATTGCTCTCACCAC

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FIGURE 594

CGGGLVFRGRRCAAAEGGRAGSGMELGRPLLEVILASALSPASPLLPPDYILCVVSLLQMKDLGAEHLAGHEGVQLLGLLNVYLEQEERFQPREAKGLSLIEATPENDNTLCPLRNAKVEDILRSLANFFGSCTETFVLAVNILDRLFLALMKVKPKHLSCIGVCSFLLAARIVEEDCNIPSTHDVIRISQCKCTASDIKRMKEKIISEKLHYELEATTALNFLHLYHTIILCHTSERKEILSLDKLEAQLKACNCRLIFSKAKPSVLALCLLNLEVEETLKSVELLEILLLVKKHSKINDTEFFYWRELVSKCLAEYSSPECCKPDLKKLVWIVSRRTAQNLHNSYYSVPELPTIPEGGFDESESEDSCEDMSCGEE
SLSSSPPSDQECTFFFNFKVAQTLCFPS

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FIGURE 595

CCGGTCGGATGCCGGACCGGGGGCACCGCTGAGGC GG TGGTCCC GACCTGCGAGACAGGTTGGAAGCCCCCG
CTGCGCCCAGTCGTGCGGACCGCGAGGCCGCGGGTGGAGGC CGTCTCCGGCACGATGAAGGATTGGGG
GCAGAGCACTTGGCAGGTCAAGGGTCCAACCTCTCGGGTTGTGAACGTCTACCTGGAACAAGAAGAGAGA
TTCCAACCTCGAGAAAAGGGCTGAGTTGATTGAGGCTACCCGGAGAATGATAAACACTTGTGTCCAGGATTG
AGAAATGCCAAAGTTGAAGATTAAAGGAGTTAGCCAACCTTTGGATCTGCACTGAAACTTTGTCTGGCT
GTCAATATTTGGACAGGTTCTGGCTTATGAAGGTGAAACCTAAACATTGTCTTGCAATTGGAGTCTGTTCT
TTTTGCTGGCTGCTAGAATAGTTGAAGAAGACTGCAATATTCCATCCACTCATGATGTGATCCGGATTAGTCAG
TGTAAATGTACTGCTCTGACATAAAACGGATGGAAAAATAATTTCAGAAAATTGCACTATGAATTGGAAGCT
ACTACTGCCTTAAACTTTGCACTTACCAACTATTACTTTGTCATACTTCAGAAAGGAAAGAAACTG
AGCCTTGATAAAACTAGAACGCTCAGCTGAAAGCTGCAACTGCCGACTCATTTCAAAAGCAAACCATCTGTA
TTAGCCTTGTGCCTCTCAATTGGAAGTGGAAACTTGAAATCTGTTGAATTACTGAAATTCTCTTGCTAGTT
AAAAAACATTCAAGATTAAAGACTGAGTTCTACTGGAGAGAGTTGGTTCTAAATGCC TAGCCGAGTAT
TCTTCTCCTGAATGTTGCAAACCAACAGATCTAAGAAGTTGGTTGGATCGTTCAAGCGCACAGCCCAGAACCTC
CACAAACAGCTACTATAGTGTCCCTGAGCTGCCAACGATACCTGAGGGGGTTGTTGATGAAAGTGAAGTGAG
GACTCTTGTGAAGATATGAGTTGTGGAGAGGAGAGTCTCAGCAGCTCCTCCAGTGTCAAGAGTGACCTTC
TTTTCAACTTCAAAGTGGCACAAACACTGTGCTTCCATCTTAGAAATCTGATTGTTCTGTCAGAATTATATT
TACAGGGTTCAAAGCAATAATGGGGAATAGGTAGTTCTGGTTAGCCCCCATCTAGTCAGGAATTAAATAT
ACTGGAATACCTACCTTCTATTGTTATTCAAGATCAGATCTGGCCTATTTCATATTCTAAGCCATCAAAT
GGGGTAGTGCCTCTAAACCATTAAACAGTACTTAGACATTGGCACTTATTTCCTCGTAGATCTTAGCTACT
TTGGGGAGGGAGGGAAAGGTGCTGATACTTCAATTGTTACTTTCAAGATTAAAATAACTAGTGTAGCTTA
TCTTAAACATTTATAAAACCTTCAGATGCTTAAAGCAGATTGGAAGTATGCAAGTGCTTCTTAGCAGGGACA
GTGGATAATCCTTAATGGTTATCATAGATTCCACCCCTCCCCCTCTCAGAAGAGTGAGTATGCTCTAAATGT
CAAACACATTGGTTGTTTAAATGATCAGTGCTATTGATGTGATGCAGATCTTATAAATTGGG
AATTATAATATTGACATTCTGTGATTATATATGTAATGCTTAATTGAGATTGTTAAGGCAGAAATAA
TTAGGCTAGGGCTTCTAGTTTCAATTCTATTGCCAAGTATTGTCAGACTATGGTATTATTAAATGTTACTT
AAAAAATCCATAATCTGCTAGTTGCATGTACTTATGAAACAGTGCAGTAAGTTGAAAACACTCAGTATCTAT
GGAATTGATAATGTTGATCTGGTAGTATATTATCCGCAATTCTTATATTAAAAATGTTCTGCATGATT
ACATTATTGCCTTGT

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FIGURE 596

MKDLGAEHLAGHEGVQLLGLLNVYLEQEERFQPREKGSLIEATPENDNTLCGPLRNAKVEDLRLSLANFFGSCTE
TFVLAVNILDRLFLALMKVKPKHLSCIGVCSFLAARIVEEDCNIPSTHDVIRISQCKCTASDIKRMEKIISEKLH
YELEATTALNFLHLYHTIILCHTSERKEILSLDKLEAQLKACNCRLIFSKAKPSVLALCLLNLEVETLKSVILLE
ILLLVKKHSKINDTEFFYWRELVSCKLAEYSSPECCKPDILKKLVWIVSRRTAQNLHNSYYSPPELPTIPEGGCFD
ESESEDSCEDMSCGEESLSSSPSDQECTFFFNFKVAQTLCFPS

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FIGURE 597A

GCGGATTGTTGCTCCGTTGACCTGCTGGGAATTCACCTCGTACTGCTTGATATCTCCACCCCTACAAAAT
 CAGAAAAGTTGTTTCTAATACCAAAGAGGAGGTTGGCITTCTGTTGGGATTCAGACACTGAAGTCAA
 AGAAGAGACCCTCTAGAAAAGTAAATATGACTAAAAGCAATGGAGAAGAGCCAAAGATGGGGCAGGATGGA
 GAGATTCCAGCAGGGAGTCCGTAACGCACACTTTGCCAAGAAGAAAGTGCAGAACATTACAAGGAGGATGT
 TAAAAGTTACCTGTTCGGAATGCTTGTGCTGCTCACAGTCACCGCTGTCATTGTGGGATCAAATCCTGGATT
 TACCCCTCCGACCATAACAGAATGAGCTACCGGGAAAGTCAGACTTCTCCTTCTGGGAACTTCTGATGAGGAT
 GTTACAGATGCTGGTCTTACCACTTATCATCTCCAGTCTGTCACAGGAATGGCCGCGTAGATAGTAAGGCATC
 AGGGAAAGATGGGAATGCGAGCTGAGTCTATTATGACTACCACCATCATTGCTGTGGGATGGCATAATCAT
 TGTATCATCATCCATCTGGGAAGGGCACAAAGGAAACATGCACAGAGAAGGAAAATTGACGAGTGACAGC
 TGCAGATGCCTCTGGACTTGATCAGGAACATGTTCCCTCAAATCTGGTAGAAGCCTGCTTAAACAGTTAA
 AACCAAACATGAGAAGAGAAGCTTAAAGTGCCATCCAGGCCAACGAAACGCTGTGGGCTGTGATAAACAA
 TGTGTCTGAGGCCATGGAGACTCTTACCGAATCACAGAGGAGCTGGCCAGTCCAGGATCTGTGAATGGAGT
 CAATGCCCTGGGTCTAGTTGCTTCTCCATGTGCTCGGTTTGTGATTGGAAACATGAAGGAACAGGGGCAGGC
 CCTGAGAGAGTTCTTGATTCTCTTAACGAAGCCATCATGAGACTGGTAGCAGTAATAATGTGGTATGCCCGT
 GGGTATTCTCTCTGATTGCTGGGAAGATTGTGGAGATGGAAGACATGGGTGATTGGGGGAGCTTGTGAA
 GTACACCGTGAUTGTCATTGTTGGCTTACTCATTACGCAGTCATCGTCTGCCACTCCTCTACTTCTGGTAAC
 ACGGAAAAACCCCTGGGTTTATTGGAGGGTTGCTGCAAGCACTCATCACCCTCTGGGACCTTCAAGTTC
 TGCCACCCCTACCCATCACCTCAAGTGCCTGGAAGAGAACATGGCGTGGACAAGCGCGTACCCAGATCGTGC
 CCCCGTAGGAGGCCACCATTAACATGGATGGACTGCCCTCATGAGGCTTGGCTGCCATTTCATTGCTCAAGT
 TAACAACTTGAACACTCGGACAAATTATTACAATCAGCATCACGCCACAGCTGCCAGTATTGGGCAGC
 TGGAAATTCTCAGGGGGCTGGTCACTATGGTCAATTGTCATGTCAGCATCTGCGGCCACTGACGACATCAC
 GCTCATCATCGCGGTGGACTGGTCTGGATCGCTCCGGACCACCAACGTACTGGGAGACTCCCTGGGAGC
 TGGGATTGTGGAGCACTGTCACGACATGAACAGAGATGTTGAAATGGTAACTCAGTATTGAA
 GAATGAAATGAAGAACCATATCAACTGATTGCACAGGACAATGAAACTGAGAAACCCATGACAGTGAACCAA
 GATGTAGACTAACATAAAAGAACACTTCTTGAGCACCAGGTGTTAAAACCATTATAAAATCTTCCATCTCAT
 TACAGCTCATTGCTCCAGCAAGCCGTCATCTTCCCTTCCCTCTGATAAGACTGGAAAATAGCCTCCA
 AAACACAAGGGAGGATTGGTGGCAAAGTGTACAATTTCATCCCACAATTGAAATTAAATCATTTCAI
 GTTAGTCTTACCGAATAAGGTACCAAGATCACAAATAGTGTGATCAGATCTTACAAGTTATGTGGCACACAAT
 TCCTATAATGTGATTTTATATAAGTTAAAGAGACAAATAGTAGGCTAAAACATTAAAATCAACTTTG
 AAATTAAAAATCTTCAGAATACAATTCAAGTTAGTTCAAAATGTTAACAAACTGAAATTACAACGGGTTATC
 AGTTGGACAGTAAGATTTATCCCTTCTTCTGACTGGTACACCTATTTCATTAGTAGCTAGGTGCACATATA
 CATCTAGCACAGCTGTGAGGACAGACAGAAGGCAAAGTTCATGTGGCCTTGAGCAAGTCCATCTCACCTCTA
 GGCCTCAGTGTCTCATCTATAAAATGAGGGACTCCCTAGAAGTCTCATGGTCTTCCAGCCCAGACATCCT
 GTGATGTGATGAAAGCACCTGCCCTGTTCCCTCAGAACACCCCTGACCATCCATGGAGCACGAGGCCCTCA
 GAAAAGACACTCAATGGAGTGAACATTCTAACTAAGGACAGGATGGCTGTGGTGGTCACCAGGTCTG
 TGAGCAAAGTGCAGGTTATGCAAGTGCCTAGGCAGGAGGCCATTCCAGGAGTGGGATTATTCAAAACTCTTG
 CCCAGTCTCATCCAAATGGGGAAAGTATCCCTTCTACTCTGGGAAAGATGTCCTGCCACTCCTCAACT
 GATGATAGACTTCGAAAACAGATGAGAAGACTAGCAGCTAGCAAGGGTGTGTTAGTCACACTGTGGAAACACTAA
 AGAGCTAGGAAAGAGTTGAGCACAGGCAACATTACAACAAAGGATTGAAAACACCAAGAGTACAGGTCTTCTT
 TAAGGAAGAATAAAAAGAAGAGGTTCATTTCTGGCTTTTTTACCTGAAACACTTTCTCGAGTCCAA
 AATCATCCCCCGTGAAGTCTGCTTACCAAAACATAAGACGACTTATATATTGAAAGAAGTCAAATGAATGAG
 CTCTCTAATAGAAGTCCATGAGTGTGGTATTCTTATTGAAAGTGTGTTCTTAAATCAAAAGCCTTAG
 AATGAGGGAAACAAATATTATTTGTTGGAATCCCACCTTACAAATCATTCAAACACTTCAGCTGGAGTGGG
 GTTGCTTTGTTGTTGTCATAAGAGAAATGGTAGAAGATGAATCAGTATGAAGACACTGTCAATGAGG
 TTATGAGAAAAAAACAGCAGGGCATTAGTTCAAGGCAAGGGCAGCTCCAGGTTAGAGATTAATTTCACCC
 TAAGGAATATCCAGTCAAAGACGCTGAGTGGAGCTGTCAGGCAGTAGCAGCTGTGTTGAGTTCTGGCTGAAA
 ATGGTGAAGAATGGACTTAATTATGCTAACAAACTGAAAATCTAGACATAGATCCTCTGATATAACATTAGAGA
 TATTTTATAGACCCCAAGCATTCTGTGCATAAAAGTTAACATTAGGCTGTGGTCAGTAACCATTAAATGTC

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FIGURE 597B

GAGGCTCTATTCGGAAATACACTACAAATGTTAAAGTACGTGGCTGCCTCTTAAGACACTAGTAGAGCAAAGA
CTTAATCATATCAACTTAATTCTGTTACACAATATGTGTTAAATATACTAACCATTTCTTATGGAAAGGTCC
TGTGGGGAGCCCATCCTCTGCCAAGCCATCACAGGCTCTGCATACACATGCACTCAGTGTGGACTGGGAAGCAT
TACTTTGTAGATGTATTTCAATAAAGAAAAAAATAGTTTACATT

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FIGURE 598

MTKSNGEEP KMGGRMERF QQGVRKRTLLAKKKVQNI TKEDVKS YLFRNAF VLLTVTAIVGT ILGFTLR PYRMSY
REVKYFSFPGE LMRMLQMLVLPLISSLVTGMAALDSKASGKMGMR A VVYYMTTIIAVVIGIIIIVIIHPGKG
TKENMHREGKIVRVTAADAFLDLIRNMFPNLVEACFKQFKTNYEKRSFKVPIQANETLVGAVINNVSEAMETLT
RITEELVPVPGSVNGVN ALGLVVFSMCFGVIGNMKEQGQALREFFDSLNEAIMRLVAVIMWYAPVGILFLIAGK
IVEMEDMGVIGGQLAMYTVTIVGLLIH AVIVLP LLFLVTRKNPWVFIGGLLQALITALGTSSSATLPITFKC
LEENNGVDKRVTRFVLPGATINMDGTALYEALAAIFIAQVNNFELNFGQIITISITATAASIGAAGIPQAGLVT
MVIVLTSVGLPTDDITLIIAVDWFLDRLRTTNVLGDSL GAGIVEHLSRHELK NRD VEMGN SIEENEMKKPYQL
IAQDN ETEKPIDSETKM

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FIGURE 599A

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FIGURE 599B

GAACCAGAAGGCCTATTACCCAGCATCGTGGCAACAGGTGGCTGGCGTGCAGCTGGAGTGTGAGGCAACTG
CATCGTTCTGTTGCTGCCCTGTTGCGGTGATCTCCAGGCACAGCCTCAGTGCTGGCTTGGTGGGCCTCTCAGT
GTCTTACTCATTGCAGGTCAACCACGTACTGAACGGCTGGATGTCATCTGAAATGAAACACATCGT
GGCGTGGAGAGGCTCAAGGAGTATTCAAGAGACTGAGAAGGAGGCGCCCTGGCAAATCCAGGAGACAGCTCCGCC
CAGCAGCTGGCCCAGGTGGCCGAGTGGAAATTCCGGAACACTGCCTGCCTACCGAGAGGACCTGGACTTCGTT
TCTCAGGCACATCAATGTCAGCATCAATGGGGAGAAAAGGTGGCATCGTGGGGCGACGGAGCTGGGAAGTC
GTCCCTGACCTGGCTTATTCGGATCAACGAGTCTGCCGAAGGAGAGATCATCATCGATGGCATCACATCGC
CAAGATCGGCCTGCACGACCTCCGCTCAAGATCACCATCATCCCCCAGGACCTGTTTGTGTTGGTCCCT
CCGAATGAACCTGGACCCATTCAAGCAGTACTCGGATGAAGAAGTCTGGACGTCCCTGGAGCTGGCCCACCTGAA
GGACTTCGTGTCAAGCCCTTCCTGACAAGCTAGACCATGAATGTGCAGAAGGCGGGAGAACCTCAGTGTGGGCA
GCGCCAGCTGTGTGCTAGCCGGCCCTGCTGAGGAAGACGAAGATCCTGTTGGATGAGGCCACGGCAGC
CGTGGACCTGGAAACGGACCTCATCCAGTCCACCATCCGGACACAGTTCGAGGAACCTGCACCGTCCACCAT
CGCCCACCGGCTAACACCATCATGGACTACACAAGGGTGTCTGGACAAAGGAGAAATCCAGGAGTACGG
CGCCCCATCGGACCTCCTGCAGCAGAGAGGTCTTCTACAGCATGGCAAAGACGCCGGCTGGTGTTGAGCCCC
AGAGCTGGCATATCTGGTCAAGACTGCAGGGCTATATGCCAGCGCCAGGGAGGAGTCAGTACCCCTGGTAAAC
CAAGCCTCCCACACTGAAACAAAACATAAAACCAACCCAGACAACCAAAACATATTCAAAGCAGCAGCCACC
GCCATCCGGTCCCTGCCTGGAACCTGGCTGTGAAGACCCAGGAGAGACAGAGATGCGAACCAACACGCA
CACCCCTGCCCTGGTGCCTGAGACAGACACAGCCTCACGCCAGGAATGCAAGTGGTTCTGGTGTCTC
CCACGGAGGAGTTGGCAGCCAGACTCTGGAGGAATTGGTGTATAGAAGATCCTAGTGACCAATTCAAGCCT
ACTGCCTCGGATCTCTCCAGCCGAAGTCTGTGGACTGCAAGTCTTGAGATGCTCTGGCTCCATCACCTCTAA
CATCCTTGTCTGGGTCTACCAGGAACGCTTCATTCTGGCTGCAAGTTGTGGTTGAGGGGCTGGAGAAA
ATCATTCTCCCTGGCAGTGTCCCAGGGCCCTGGATGGCCTCTTACCAACATCTGGCTTCCAGGCACCTCA
AAAGCTGGGAACCAGCATCTCAGCGCCAGCTCTACCAAGTCTCGTTGGCCAGAGGCAGCCTCTGCACTCCCA
CGCTGTCCTCTGGAAAGGACCTGGTGGACTAACGGCTAACCTGGACCTGGAACTGTAGGGCCAGGGGATTGT
CTCAGGGCCGACGTTCCACCTGGGCTCCCTCCCCACCCACCCGACTCCAGGCTTCCCTTTCTTTGTT
CAACATTGTAAGAACAACTCAATGCTGTATTACTGATCCCACCATGATTGATGTGGGTAAATATTAAGGAGATG
GCCTCATGGAAATTGACCTGACTAGAAATAGAGACTGAGAGTGGCAACCAAGCTGGAAAGTACTATGCCAGTC
CTAGCAGAAAAATGTGTTAGGGCCTGCCAAAGCAGTGTGGTTGCTACAGTGTGATTGATTGATTGTTCTT
TTCTTACCAACCTTTCTTCCCTCATGGTACCTGCTCATGGTATGAAGCTTCAAAGTAAAGAACACGAA
AATAC

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FIGURE 600

MALRGFCSADGSDPLWDWNVTWNTSNPDFTKCFQNTVLVWVPCFYLWACFPFYFLYLSRHDGYIQMTPLNKTKT
ALGFLLWIVCWADLFYSFWERSRGIFLAPVFLVSPTELLGITLLATFLIQLERRKGVQSSGIMLTFWLVALVCAL
AILRSKIMTALKEDAQVDLFRDITFYVVFSLLLIQLVLSCFSDRSPLFSETIHDPNCPPESSASFLSRITFWWIT
GLIVRGYRQPLEGSDLWSLNKEDTSEQVVPVLVKNWKECAKTRKQPVKVVYSSKDPAQPKESSKVDANEEVEAL
IVKSPQEWNPSLFKVLYKTFGPYFLMSFFFKAHDLMMFSGPQILKLLIKFVNNDTAKPDWQGYFTVLLFVTAC
LQTLVLHQYFHICFVSGMRIKAVIGAVYRKALVITNSARKSSTVGEIVNLMSVDAQRFDMLATYINMIWSAPLQ
VILALYLLWLNLGPSVLAGVAVMVLMVPVNAVMAMKTKTYQVAHMKSNDNRIKLMNEILNGIKVLKLYAWELAFK
DKVLAIRQEELKVLKKSAYLSAVGTFTWVCTPFLASVSLKRLRIFLSHEELEPDASIERRPVKDGGGTNSITVRNA
TFTWARSDPPTLNGITFSIPEGALVAVVGQVGCGKSSLLSALLAEMDKVEGHVAIKGSVAYVPQQAWIQNDLRE
NILFGCQLEEPYYRSVIQACALLPDLEILPSGDRTEIGEKGVNLGGQKQRVSLARAVYSNADIYLFDPLSAVD
AHVGKHIFENVIGPKGMLKNKTRILVTHSMSYLPQDVIIIVMSGKISEMGSYQUELLARDGAFAEFLRTYASTEQ
EQDAEENGVTGVSGPGKEAKQMENGMLVTDASAGKQLQRQLSSSSSYSGDISRHNSTAELOQAEAKKEETWKLME
ADKAQTGQVKLSVYWDYMKAIGLFISFLSIFLFMCNHVSALASNYWLSLWTDDPIVNGTQEHTKVRSLVY GALGI
SQGIAVFGYMSMAVSIGGILASRCLHV DLLHSILRSPMSFFERTPSGNLVNRFSKELDTVDSMIPEVIKMFMSGSLF
NVIGACIVILLATPIAAIIIPPLGLIYFFVQRFYVASSRQLKRLESVSRSPVYSHFNETLLGVSVIRAFEEQERF
IHQSDLKVDENQKAYYPSIVANRWLAVRLECVGNCIVLFAALFAVISRHSLSAGLVGLSVSYSLQVTTYLNWLVR
MSSEMETNIVAVERLKEYSETEKEAPWQIQTAPPSSWPQVGRVEFRNYCLRYREDLDFVLRHINVTINGGEKVG
IVGRTGAGKSSLTLGLFRINESAEGEIIDGINIAKIGLHDLRFKITIIPQDPVLFSGSLRMNLDPFSQYSDEEV
WTSLELAHLKDFVSALPDKLDHECAEGGENLSVGQRQLVCLARALLRKT KILVLDEATAAVDLETDDLIQSTIRT
QFEDCTVLTIAHRLNTIMDYTRVIVLDKGEIQEYGAPS DLLQQRGLFYSMAKDAGLV

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FIGURE 601

CGGGGACCCGGCTCGGGTGGCTGCGGGACTGACGAGAAACTACTAAAGTTCTGGGAAGCAAAGTAGAATTCA
TAAGAACAAAATGGATGGAGAGGAGAAAACCTATGGTGGCTGTGAAGGACCTGATGCCATGTATGTC
ATCATCTGATGCCATGAATTATTGTAAAAAGAGAACATGCATTAACATCAGGCACGATAAAAGCCATGTTGAG
TGGCCCAGGTCAAGTTGCTGAGAACGAAACCAATGAGGTCAATTAGAGAGATACTTCACATGTGCTATCGAA
AGTATGCATGTATTTACGTACAAGGTTCGCTACACTAACAGCTCCACCGAGATTCTGAATTCCAATTGCACC
TGAAATTGCACTGGAACGTGCTGATGGCTGCGAACCTCTTAGATTGTTAAATAAAATAAAATTATAATAAAACTGTTA
ACTCTTTCAGTATTAATACCTGTAGTTCACTTTCATATAGCATGTTGCCTGTATGCAGTTG
AACTATATAAAAGTCATTGCAAAGCAGATTATCTGTTTTGCATAGCAATCAAAGTTGAAATTGTTGCTA
CATCAACAAATTAAGGACATTTCACAAACTGAGAAATAACAAATGCCAATTAAAAAAAAAAAAAA

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FIGURE 602

MDGEEKTYGGCEGPDAMYVKLISSDGHEFIVKREHALTSGTIKAMLSPGQFAENETNEVNFRIPSHVLSKVC
YFTYKVRYTNSSTEIPEFPIAPEIALELLMAANFLDC

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FIGURE 603

CAGACCCCCAGTTGCCGACTAAGCAGAAAGAGATCAAAAACCGGAAAAGAGGAGAAAGAGCAAACAGGCACCTTG
AGGAACAATCCCCTTAACCTCCAAGCCGACAGCGGTCTAGGAATTCAAGTTAGTCAGTGCCTACCGAAGACAAAGGC
CCCCGAGGGAGTGGCGGTGCGACCCCAGGGCGTGGGCCGGCGAGCCCACACTGCCGGCTGACCCGGTGG
TCTCGGACC**ATGT**CTCCCGCCCCAAGACCCCCCGTTGTCCTGCTCCCCCTGCTCACGCTCGGACCCCGCGCTC
GCCCTCCCTCGGCTCGGCCAAAGCAGCAGCTCAGCCCCGAAGCCTGGCTACAGCAATATGGCTACCTGCCTCCC
GGGGACCTACGTACCCACACACAGCGCTCACCCAGTCAGCTCAGCGGCCATCGCTGCCATGCAGAAGTTTAC
GGCTTGCAAGTAACAGGCAAAGCTGATGCGAGACACCATGAAGGCCATGAGGCCGGGGGATGTGGTGTCCAGAC
AAGTTGGGCTGAGATCAAGGCAATGTTCGAAGGAAGCGTACGCCATCCAGGGCTCAAATGGCAACATAAT
GAAATCACTTCTGCATCCAGAATTACACCCCCAAGGTGGCGAGTATGCCACATACGAGGCCATTGCAAGGC
TCCCGCGTGTGGAGAGTCCCACACCAGTGCCTCCCGAGGTGCCCTATGCCCTACATCCGTGAGGGCCATGAG
AAGCAGGCCGACATCATGATCTCTTGCGAGGGCTTCCATGGCGACAGCACGCCCTCGATGGTGAAGGGCGG
TTCCTGGCCATGCCTACTTCCCAGGGCCAAACATTGGAGGAGACACCCACTTGAUTCTGCGAGCCTGGACT
GTCAGGAATGAGGATCTGAATGGAATGACATCTCCTGGCTGTGCACGAGCTGGCCATGCCCTGGGCT
GAGCATTCCAGTACCCCTCGGCCATATGGCACCCCTTIAACAGTGGATGGACACGGAGAATTGGTGTGCC
GATGATGACCGCCGGGCATCCAGCAACTTATGGGGTGAUTCAGGTTCCACAGATGCCCTCAACCC
AGGACTACCTCCCGCCTCTGTTCTGATAAACCAAAACCCACCTATGGGCCAACATCTGTGACGGGAC
TTTGACACCGTGGCCATGCTCGAGGGAGATGTTGTTCAAGGAGCGTGGTCTGGGGGTGAGGAATAAC
CAAGTGAUTGGATGGATACCCAAATGCCATTGGCCAGTTCTGGCGGGGCTGCCGTCCATCAACACTGCC
GAGAGGAAGGATGGCAAATTGCTTCTCAAAGGAGACAAGCATTGGTGTGATGAGGCGTCCCTGGAACCT
GGCTACCCCAAGCACATTAAGGAGCTGGCGAGGGCTGCCATCCGACAAGATTGATGCTCTCTGGATG
CCCAATGGAAAGACACTTCTCCGTTGAAACAAAGTACTACCGTTCAACGAAGAGCTCAGGGCAGTGGATAGC
GAGTACCCCAAGAACATCAAAGTCTGGGAAGGGATCCCTGAGTCTCCAGAGGGTATTGATGGCAGCGATGAA
GTCTTCACTTACTCTACAAGGGAAACAAACTGGAAATTCAACACCAGAAGCTGAAGGTAGAACCGGGCTAC
CCCAAGTCAGCCCTGAGGGACTGGATGGCTGCCATCGGGAGGCCGGATGAGGGACTGAGGAGGAGAC
GAGGTGATCATCATTGAGGTGGACGAGGAGGGCGGGCGGTGAGCGCGCTGCCGTGGTGTGCCGTGCT
CTGCTGCTCTGGTGTGGCGGTGGCCTTGCAGTCTCTCAGACGCCATTGGACCCCCAGGGACTGCT
TACTGCCAGCGTCCCTGCTGGACAAGGT**TC**AGCAGCCCACCGCCGGCCACTCCTACCAAGGACTTTGC
CTCTGAAGGCCAGTGGCAGCAGGTGGTGGTGGCTGCCATCGGGAGGCCGGATGAGGGACTCAGACCTCGCTGG
TTGCTTCTCTGCCCCCTGGCTGGCCTCTCACCTGACCGCCTCCCTCCCTGCCATGGCAGCCTCC
CCCTAGATAGGTCCCTGAGGGCTGAGTGGAGGGCGGGCCCTTCCAGCCTCTGCCCTCAGGGAAACCTGTAG
CTTGTGTCTGTCAGCCCCATCTGAATGTGTTGGGGCTGCACTGAAGGCAGGACCCCTCAGACCTCGCTGG
TAAAGGTCAAATGGGTATCTGCTCTTCCATCCCCTGACATACTTAAACCTCTGAACCTGACCTCAGGAG
GCTCTGGCACTCCAGCCCTGAAAGCCCAGGTGACCCATTGGCAGCCTCTACTACTCTTCTGGCTAAAG
GAATCTAAATCTGTTGAGGGTAGAGACCCCTGAGACAGTGTGAGGGGGTGGGACTGCCAAGCCACCTAAGACCT
TGGGAGGAAACTCAGAGAGGGCTCGTGTGCTAGTCAGTCAGTCAGTCAAGTCTCGGAGATCTGCC
CCCCAGGGAACTTCCAAGGAAGGAGGCCAGCCACTGGGACTAAGTGGCAGAAGAAACCTTGGCAGCC
GCCCTCTGAATGTAGCCTGGATGGGCTTCACTAGTTAGAAGAGCTGAAACCCAGGGGTGCAGCTGCA
GGTGGGGCGGTGGAGAGGCCGGGTAGAGCCCTGGGGCTGAGGCCAGGCTGAAGGGCACAGAGAAAGAAC
AAACTCAGGCAGCTGGGCTGAGGCCAAAGGCAGAACAGCCAGAGGGGAGGGGACCAAAAGGAAATG
AGGACGTGCAGCAGCATTGGAAGGCTGGGCCGGCAGGCCAGGCCAAGCCAAGCAGGGGCCACAGGGTGG
GTGGAGCTCTCAGGAAGGGCCCTGAGGAAGGCACACTTGCTCTGTTGGTCCCTGCTGCCAGGCAGCG
TGGAGGGGAAGGGTAGGGCAGCCAGAGAAAGGAGCAGAGAAGGCACACAAACGAGGAATGAGGGCTC
GCCACAGGGCTGGCTGGCACGCTGCTCCGGCTGCTCACCATCTCAGTGAGGGCAGGAGCTGGGCTCGCT
TAGGCTGGGTCCACGCTCCCTGGTGCCAGCACCCCTCAAGCCTGTCACCAGTGGCTGCCCTCTCGCT
CACCCAGCCCACCCATTGAAGTCTCTGGGCCACCAAGGTGGTGGCATGGTACCGGGGACTTGGGAGAGTGA
GACCCAGTGGAGGGAGCAAGAGGAGAGGGATGTCGGGGGGTGGGCACGGGGTAGGGGAAATGGGG
GCTGGCAGTCGGCTAGATTCTGTTGTTGTTGTTAATGTATATTTATTATAATTATA
TATATGAATTCCAAAAA

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FIGURE 604

MSPAPRPPRCLLLPLLTGTALASLGSAQSSFSPEAWLQQYGYLPPGDLRHTQRSPQSLSAAIAAMQKFYGLQ
VTGKADADTMKAMRRPRCGVPDKFGAEIKANVRRKRYAIQGLKWQHNEITFCIQNYTPKVGEYATYEAIRKAFRV
WESATPLRFREV PYAYIREGHEKQADIIMIFFAEGFHGDSTPDFGEGGFLAHAYFPGPNI GGDTFDSAEPWTVRN
EDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVL PDDDRGIQQLYGGESGFPTKMPQPRTT
SRPSVPDKPKNPTYGPNICDGNFDTVAMLRGEMFVFKERWFWRVRNNQVMDGYPMPIGQFWRGLPASINTAYERK
DGKFVFFKGDKHWVFDEASLEPGYPKHIELGRGLPTDKIDAALFWMPNGKTYFFRGNKYYRFNEELRAVDSEYP
KNIKVWE GIPESPRGSFMGSDEVFTYFYKGNKYWKFNQNQKLKVEPGYPKSALRDWMGCP SGGRPDEGTEEETEVI
IIEVDEEGGA VSAAVVLPVLLLLVLA VGLAVFFFRRHGT P RLLYCQRSLLDKV

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FIGURE 605

GAATTCCGGGCTCCGGGGATGAGGTCGCGGCGGGTCCC~~GCGCTGTGCTGCTGCTCTTCC~~CGGAGCG
GCCGAGTCGGT~~CGCTCGGGCC~~AGCCTCC~~CGCCG~~CTACACCCCAGACTGGCCGAGCCTGGATTCTCGGCCGCTG
CCGGCCTGGTTGACGAAGCCAAGTTGGGGT~~GTT~~CATCCACTGGGG~~GCTG~~TCTCGGTGCCGCTGGGCAGC
GAGTGGTTCTGGTGGCACTGGCAGGGCGAGGGGCGGCAGTACCAGCGCTT~~CATGCGC~~GACA~~ACTACCC~~CCCC
GGCTTCAGCTACGCCGACTTC~~GGACC~~CGAG~~TT~~ACT~~GC~~CGCTTCTCCACCC~~GGAGGAGTGGG~~CGAC~~CT~~CTTC
CAGGCCG~~GGG~~CGCCAAGTATG~~TAG~~TTGAC~~ACA~~AG~~CAT~~ACGAAGGCTT~~CACAA~~ACTGGCCGAGTCCTGTG
TCTTGGAACTGGAACTCCAAAGAC~~GTGGG~~CCTCATGGGATTGGTTGGTGAATTGGGAACAGCT~~CC~~GGAAAG
AGGAACATCCG~~T~~ATGGACTATACCA~~CT~~ACTCTAGAG~~TGGT~~CCATCC~~ACTCT~~ATCTGATAAGAAAAAT
GGCTTCAAAACACAGCATT~~TG~~CAGTG~~CAAA~~ACAA~~TGCC~~AGAGCTG~~TACGAC~~TTGTTAACAGCTATAA~~AC~~
GATCTGATCTGGT~~CTG~~ATGGGAG~~TGG~~AA~~TG~~CCTGATA~~ACTT~~ACTGGAA~~CTCC~~ACAA~~ATT~~T~~TT~~CATGGCTC
TACAATGACAGCC~~CTG~~TCAAGGATGAG~~GTGG~~TAG~~AA~~ATGACCGATGGG~~T~~CAGAA~~CT~~CTGT~~CA~~CCATGGA
GGATACTATAACTGTGAAGATAAA~~TT~~CAAGCCACAGAGCTT~~GC~~CAGATCACAAG~~TGGG~~AGATGTG~~CAC~~AGCATT
GACAAG~~TTT~~CTGGG~~C~~TATCGT~~CG~~TGACATGGCATT~~TG~~CTGATG~~TT~~TACAGAAGA~~AT~~CTGAA~~AT~~CTTCGGAA
CTGGTT~~C~~AGACAGTAAG~~TTGGG~~AGG~~CA~~ACTAT~~CTT~~CTGAAC~~AT~~TGG~~ACCA~~ACTAAAGATGGACTGAT~~TG~~TTCCC
AT~~CTT~~CCAAGAAAGG~~CT~~CTG~~CTG~~TG~~TTGG~~AA~~AT~~GG~~CTG~~AG~~CAT~~CA~~AT~~GGGGAGG~~CT~~AT~~CT~~ATGCC~~CT~~CAAACCA
TGGCGGG~~TG~~CA~~AT~~GGAAAAGA~~ACAC~~A~~AC~~AT~~CTG~~T~~AT~~GG~~T~~AT~~AC~~CT~~CAA~~AGGG~~AT~~CGG~~CT~~G~~TT~~T~~AT~~G~~CC~~ATT~~TTT~~
CTGCACTGGCCAGAA~~AT~~GG~~AGT~~CTTAA~~AC~~CTTGA~~AT~~CCCC~~A~~TA~~CT~~AC~~CT~~CA~~ACT~~ACAA~~AG~~A~~TA~~AC~~AT~~G~~CT~~
GGAATTCAAGGAGATCTGAAGTGGT~~CC~~ACAGATCCAGATAAAGGT~~CT~~CTCATCTCT~~AC~~CCAG~~TT~~GCCACCC
TCTG~~CT~~CCCC~~G~~CAGAG~~TT~~G~~CT~~GG~~ACT~~TAAAG~~CT~~GACAGGAG~~GT~~GAAGTAATCATTGAG~~TG~~CAAGAAGAAA
GAGGC~~CG~~T~~G~~CT~~C~~ACT~~GT~~TTT~~CT~~G~~CT~~T~~AG~~TTT~~CT~~T~~TA~~AG~~T~~AC~~CA~~T~~TA~~AT~~CA~~AC~~GA~~ACT~~CT~~CTTC
TCCACCC~~A~~GAGATGG~~CT~~TTT~~CC~~A~~AC~~AT~~TT~~TA~~TT~~AA~~AG~~GA~~CT~~GAG~~T~~AC~~ATT~~AC~~CC~~T~~G~~AT~~G~~T~~CT~~AA~~AT~~GGACC
AAAGATCTGAGATCCATT~~GT~~GATT~~AT~~CTG~~T~~AT~~CAGG~~T~~CAG~~CAGAAGAAGGA~~ACT~~GAGCAG~~GT~~GA~~CT~~T~~G~~GAGT
TCATCA~~ATT~~CTA~~AT~~TTGGAA~~ATT~~AT~~CT~~ACA~~AT~~GG~~AA~~AT~~CT~~CC~~CT~~GT~~TT~~CT~~CT~~G~~A~~T~~AA~~CT~~ACT~~T~~G~~T~~CT~~ACTC
AATGC~~CT~~TTAAG~~CC~~AA~~GT~~T~~AC~~CC~~CT~~G~~TT~~GC~~CT~~AT~~GGG~~AGG~~AGG~~T~~GG~~CA~~AG~~CT~~CA~~AC~~CA~~AT~~G~~T~~CT~~
TTAGTTAGCATCAG~~TT~~GT~~CA~~CC~~AC~~AG~~T~~CTT~~CT~~G~~CA~~AA~~AGGG~~CAGGAG~~GAG~~CT~~TT~~GGGGAA~~AGG~~AA~~AGG~~CT~~TAC~~
CAGG~~G~~T~~G~~CT~~AT~~GG~~T~~CA~~AC~~T~~CT~~TCAG~~AA~~AT~~TT~~CA~~GAG~~CA~~AT~~CT~~AA~~AG~~G~~CC~~AA~~AT~~TC~~G~~CT~~AT~~G~~TTAC~~AG~~T~~G~~A
TACTATTAAAGAAA~~AT~~GA~~AT~~GT~~G~~ATT~~CT~~G~~CT~~T~~GT~~CT~~TT~~TA~~AG~~T~~AT~~G~~AT~~CAA~~ATA~~AAA

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FIGURE 606

MRSRPAGPALLLLLLFLGAAESVRRAQPPRRYTPDWPSLDSRPLPAWFDEAKFGVFIHWGVFSVPAGSEWFWWH
WQGEGRPQYQRFMRDNYPPGFSYADFGPQFTARFFHPEEWADLFQAAGAKYVVLTTHEGFTNWPSPVSWNWNS
KDVGPGRDLVGEGLGTALRKRNIRYGLYHSLLEWFHPLYLLDKNGFKTQHFVSAKTMPELYDLVNSYKPDLIWSD
GEWECPDTYWNSTNFLSWLYNDSPVKDEVVNDRGQNSSCHGGYYNCEDKFKPQSLPDHKWEMCTSIDKFSWG
YRRDMALSDVTEESEIIISELVQTVSLGGNYLLNIPTKDGLIVPIFQERLLAVGKWLISINGEAIYASKPWRVQWE
KNTTSVWYTTSKGSAVYAIFLHWPEENGVLNLESPITTSTKITMLGIQGDLKWSTDPDKGLFISLPQLPPSAVPAE
FAWTIKLTGVK

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FIGURE 607

CCCGCCTTCCATACTCCCCGGCTCCGCTCGGTTCTGCCACCCCGCAGCCCCCTGCCAGGTGCCAATGGCCGCA
TTGTACCGCCCTGGCCTGCGCTTAACTGGCATGGGCTGAGCCCCTGGGCTGGGCATCATGCCGTAGCATCCAG
ACCCTGCGAGTGCTTAGTGGAGATCTGGGCCAGCTTCCCCTGGCATTGAGATTGTAGAGCACAGTGCCTG
CTGTGCCAACAGAGGGCATCCACATCTGTATGGAACACTGAGGCTGAGAAATACTGCCACACTGACCCCTGGAG
CAGCAGGGCCTATCCGAAAGCTCCCAAGTACAATAACTGCTGGCTGGCCGACAGACCCCAAGGATGTGGCA
CGAGTAGAGAGCAAGACGGTATTGTAACTCCTCTCAGCGGGACACGGTACCAACTCCGCCTGGTGGGGCTGT
GGGCAGCTGGCAACTGGATGTCCCCAGCTGATTCCAGCGAGCTGTGGATGAGAGGTTTCAGGCTGCATGCAG
GGCCGCACCATGTATGTGCTCCATTCAAGCATGGGCTGTGGCTCCCCGCTGTCCCACATGGGGTGCAGCTC
ACTGACTCAGCCTATGTGGTGGCAAGCATGCGTATTATGACCCACTGGGACACCTGTGCTTCAGGCCCTGGGA
GATGGTGAATTGTCAAGTGTCTGCACCTCCGTGGCCAGCCCTGACAGGACAAGGGGAGCAGTGAGCCAGTGG
CCGTGCAACCCAGAGAAAACCTGATTGGCACGTGCCGACCAGCAGGAGATCATCTCCTCGGCAGGGCTAT
GGTGGCAACTCCCTGCTGGCAAGAAGTGTGCTTGCCTACGCATGCCCTCGGTGGCCGGATGAGGGCTGG
CTGGCAGAGCACATGCTGATCCTGGCATCACCAGCCCTGCAGGGAAAGAAGGCCTATGTGCAGGCCCTCCCT
AGTGCCTGTGGCAAGACCAACCTGGCTATGATGCGGCTGACTGCCAGGCTGGAAAGTGGAGTGTGGGGGAT
GATATTGCTTGGATGAGGTTGACAGTGAAGGTCGACTCCGGCCATCAACCTGAGAACGGCTTCTTGGGGT
GCCCTGGTACCTCTGCCACCAATCCAACGCCATGGCTACAATCCAGAGTAACACTATTTTACCAATGTG
GCTGAGACCAGTGATGGTGGCTGACTGGGAGGGCATTGACCAGCCTTCCACCTGGTGTACTGTGACCTCC
TGGCTGGCAAACCTGGAAACCTGGTACAAGGAGCCCTGTGCACATCCAACCTCGATTTGTGCCCGGCT
CGCCAGTGCCCATCATGGACCCAGCCCTGGGAGGGCCCCAGAGGGTGTCCCATTGACGCCATCATTTGGTGGC
CGCAGACCCAAAGGGTACCCCTGGTATACGAGGCCTCAACTGGCGTCACTGGGTGTTGGCAGAGCCATG
CGCTCTGAGTCCACTGCTGCAGCAGAACACAAAGGGAGATCATCATGACGCCATTGCCATGCCCTT
TTGGCTACAACCTGGCAACTACCTGAAACACTGGCTGAGCATGGAAGGGCGCAAGGGGGCCAGCTGCCGT
ATCTCCATGTCAACTGGTCCGGCTGACGAGGCAGGGCACTTCCGTGGCCAGGCTTGGGAGAATGCTCGG
GTGCTAGACTGGATCTGCCGGGTTAGAGGGGAGGACAGTGCCTGAGAGACACCCATTGGCTGGCCTGG
GAAGGAGCCTGGATCTCAGGGCCTCAGAGCTATAGACACCAACTCAGCTGTTCTCCCTCCCAAGGACTCTGG
GAACAGGAGGTTCGTGCACATTGGAGCTACCTGACAGAGCAGGTCAACCAGGATCTGCCAAAGAGGGTGGCT
GAGCTTGAGGCCCTGGAGAGACGTGTGCACAAATGTGACCTGAGGCCATTGCTAGCAAGAGGACATAGCACCCT
CATCTGGGAATAGGAAGGCACCTTGCAAGAAAATATGAGCAATTGATATTAACATCTCAATGTGCCATAG
ACCTTCCCACAAAGACTGTCCAATAATAAGAGATGCTTATCTATTAAAAAAA

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FIGURE 608

MAALYRPGLRLNWHGLSPLGWPSCRSIQTLRVLSGDLGQLPTGIRDFVEHSARLCOPEGIHICDGTEAENTATLT
LLEQQGLIRKLPKYNNCWLARTDPKDVARVESKTIVTPSQRTVPLPPGGACGQLGNWMSPADFQRAVDERFPG
CMQGRTMYVLPFSMGPVGSPSLRIGVQLTDSAYVVASMRIMTRLGTPVLQALGDGFVKCLHSVQPLTGQGEPV
SQWPCNPEKTLIGHVPDQREIISFGSGYGGNSLLGKKCFALRIASRLARDEGWLAEHMLILGITSPAGKKALCAA
AFPSACGKTNLAMMRPALPGWKVECVGDDIAWMRFDSEGRRAINPENGFFGVAPGTSATTNPNAMATIQSNTIF
TNVAETSDGGVYWEgidQPLPPGVTVTSWLGKPWPGDKEPCAHPNSRFCAPARQCPIMDPAWEAPEGVPIDAII
FGGRRPKGVPLVYEAFNWRHGVFVGRAMRSESTAAEHKGKIIMHDPFAMRPFFGYNFGHYLEHWLSMEGRKGAQ
LPRIFHVNWFRRDEAGHFLWPFGGENARVLDWICRRLEGEDSARETPIGLVPKEGALDLGGLRAIDTTQLFSLPK
DFWEQEVRDIRSYLTEQVNQDLPKEVLAELAERRVHKM

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FIGURE 609

GGCGAGAGGCAGGGCTGAGGCAGGCCAGCGCGCAGGTGAGGCAGGAACCAACCCTCTGGCCATGGGAGGGGCCG
TGGTGGACAGGGCCCACAGCGTCAGGCCCTGACGGCGGCTGGGGCTGGGCCGTGCTTCGGCTGTTG
TCATCACTGGCTTCTCCTACGCCCTCCCCAAGGCCGTAGTGTCTTCAAGGAGCTACAGGAGTTGG
TCGGCTACAGCGACACAGCCTGGATCTCCTCATCCTGCTGCCATGCTACAGGGACAGGTCCGCTGCAGTG
TGTGCGTAACCGCTTGGCTGCCGCCGTATGCTGTGGGGCTCTTGCCTGCGCTGGCATGGTGGCTG
CGTCCTTGTGCCGGAGCATCACAGGTCTACCTCACCCTGGGTATCACGGGTTGGGTTGGCACTCAACT
TCCAGCCCTCGCTCATCATGCTGAACCGCTACTTCAGCAAGCGGCCCATGGCAACGGCTGGCGCAGCAG
GTAGCCCTGTCTTCTGTGTGCCCCGCTGGGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGCG
TCCTCATCCTGGCGGCTGCTGCTCAACTGCTGCGTGTGCCGACTCATGAGGCCCTGGTGGTACGGCC
AGCCGGCTCGGGCCGCCGACCCCTCCGGCGCTGCTAGACCTGAGCGTCTCCGGGACCGCGGCTTGTG
TTTACGCCGTGGCCGCTCGGTATGGTGTGGGCTTCTGTCCTGGCGGTGTTGAGCTACGCCAAGG
ACCTGGCGTGGCCGACACCAAGGCCCTTCTGCTACCATCCTGGCTTCAATTGACATCTCGCGGGCCGG
CCGCGGGCTTCGPGCGGGCTGGGAAGGTGCGGCCCTACTCCGTCTACCTCTCAGCTTCTCCATGTTCTCA
ACGGCCTCGCGGACCTGGCGGCTCTACGGCGGCCACTACGGCGGCCCTGTTCTGCTATCTTGGCA
TCTCTACGGCATGGTGGGGCTGCAAGTTCGAGGTGCTCATGGCATCGTGGCACCCACAAGTTCTCAGTG
CCATTGGCCTGGTGTGCTGATGGAGGGGTGGCGTGTCTCGTGGGGCCCTTCGGGAGGCAAACCTCTGGATG
CGACCCACGTCTACATGTACGTGTTCATCCTGGGGGGCCGAGGTGCTCACCTCTCCCTGATTTGCTGCTGG
GCAACTTCTCTGATTAGGAAGAAGCCAAAGAGCCACAGCCTGAGGTGGCGGCCGAGGAGGAGAAGCTCC
ACAAGCCTCTGCAACTCGGGGTGGACTTGCAGGTGGAGCATTTCTGAAGGCTGAGCCTGAGAAAAACG
GGGAGGTGGTTCACACCCCGAACACAAGTGTCTTGAGTGGCTGGCGGGCCGGCAGGCACAGGGAGGTACAG
AAGCCGGCAACGCTTGTATTTTACAAACTGGACTGGCTCAGGCAGGGCCACGGCTGGCTCCAGCTGCCG
GCCCAAGCGGATCGCGCCGATCAGTGGGGGAAGGTGGCGGGGTGGAAACCCTGTCATTCCAGAGTGG
ATCTGCGGTGAAGCCAAGCCCAAGGTACAGGCATCCTCACCAAGGGGCCCTGCTGCTCCAGGTGGCCT
GCGGCCACTGCTATGCTCAAGGACCTGGAAACCCATGTTGAGACAACGTGACTTTAATGGGAGGGTGGG
CCGCAGACAGGCTGGCAGGGCAGGTGCTGCGTGGGCCCTCTCAGCCGTCTACCTGGGCTCACATGGGCC
TGTGCCCAACCCCTTGTAGTGTCTGGGGACAGCTCTTCAACCCCTGGAAGATGAAATAAACCTGCGTGTGG
TGGAGTGTCTCGCGAATTCAAAAGCTT

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FIGURE 610

MGGA VVDEGP TGVK A P DGGWG W A V L F G C F V I T G F S Y A F P K A V S V F F K E L I Q E F G I G Y S D T A W I S S I L L A M L Y G T G
PLCSVCVNRFGRPVMLVGGLFASLMVAASF CRS II QVYLTG VITGLGLALNFQPSLIMLNRYFSKRRPMANG
LAAAGSPVFLCALSPLGQLLQDRYWRGGFLILGGLLLNCVCAALMRPLVVTAQPGSGPPRPSRLLDLSVFRD
RGFVLYAVAASVMVLGFVPPVFVVSYAKDLGVPDTKAFLLTILGFIDIFARPAAGFVAGLGKVRPYSVYLF SF
SMFFNGLADLAGSTAGDYGGLVVFCIFFGISYGMVGALQFEVLMAIVGTHKFSSAIGLVLLMEAVAVLVGPPSGG
KLLDATHVYMYVFI LAGAEVLTSSLILLGNFFCIRKKPKEPQPEVAAAEEEKLHKPPADSGVDLREVEHFLKAE
PEKNGEVVHTPETSV

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FIGURE 611

AGTCCTGCTCCGCACGCCACCTTAGGCCCGCAGCCGTGCCGGTGCCTTCAGCATGTCTTCATCCGGTGG
CCGAGGATTCCGACTTCCCACCAACCTGCCCTACGGCGTCTTCTGACCAGGGCACCAGACCGAGGA
TAGGTGTGCCATTGGCGACAGATCCTGGACCTCAGCATCATCAAGCACCTTTACTGGCCTGTCCTCTCCA
AACACCAGGATGTCTTAATCAGCCTACACTCAACAGCTCATGGGCCTGGTCAGGCTGCTGGAAGGAGGCGA
GAGTGTCTTGAGAACTTGTGAGCCAAGCCAGGCTCAGAGATGACACCGAACTCGGAAGTGTGCAT
TCATCTCCAGGCTCTGCCACGATGCACCTCCAGCCACCATAAGGAGACTACACAGACTTCTATTCCCTCGGC
AGCATGCTACCAACGTCGGAATCATGTTCAAGGGACAAGGAGAATGCGTTGATGCCAATTGGCTGCACCTACCAAG
TGGCTACCATGGCCGTGCCCTCTGCGTGGTCTGGCACCCCAATCGAAGGCCATGGACAGATGAAAC
CTGATGACTCTAACGCTCCGTATATGGTGCCTGCAAGCTTGGACATGGAGCTGAAATGGCTTTTTGTAG
GCCCTGGAAACAGATTGGGAGAGCCGATCCCCATTCCAAGGCCATGAGCACATTGGAAATGGCTTATGA
ACGACTGGAGTGCACGAGACATTCAAAGTGGAGTATGTCCTCTGGCCATTCTGGGAAGAGTTGGGA
CCACTGCTCTCCGGGGTGGTGCCATGGATGCTCTCATGCCCTTGCTGCCAACCCGAAGCAGGCCCA
GGCCCTGCCGTATCTGTGCATGACGAGCCCTACACATTGACATCAACCTCTGTTAACCTGAAAGGAGAAG
GAATGAGCCAGGCCGCTACCATATGCAAGTCAAATTAAAGTACATGTAAGTGGACGATGCTGCAGCAGCTCACTC
ACCACTCTGTCACGGCTGCAACCTGGGGGGACCTCTGGCTTCTGGACCATCAGGGGCCAG
AAAACCTCGGCTCCATGTTGAACTGTCGTGGAAGGGAACGAAGGCCATAGACCTGGGAATGGTCAGACCAGGA
AGTTTCTGCTGGACGGGGATGAAGTCATCATAACAGGGTACTGCCAGGGGATGGTTACCGCATGGCTTGGC
AGTGTGCTGGAAAAGTGTGCTGCCATCATGAGATTTCTGCTCTGGAAACAAAGGGCTCA
AGCACCCCTTCAACCTGTGACTGGGTCCTCCCTGGCTGTAGGCCTGGTCCGCCATTCAAGTACAAATAAA
GCCATTGTGCTTGAGGCCTGC

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FIGURE 612

MSFIPVAEDSDFPIHNLPGYGVFSTRGDPRPRIGVAIGDQILDLSIIKHLFTGPVLSKHQDVFNQPTLNSFMGLGQAAWKEARVFLQNLLSVSQARLRDDTELKCAFISQASATMHLPATIGDYTDFYSSRQHATNVGIMFRDKENALMPNWLHLPVGYHGRASSVVSGTPIRRPMQMKPDDSKPPVYGACKLLDMELEMAFFVGPGNRLGEPIPIASKAHEHIFGMVLMNDWSARDIQKWEYVPLGPFLGKSFGTTVSPVVPMDALMPFAVPNPQDPRPLPYLCHDEPYTFDINLSVNLKGEGMSQAATICSNFKYMYWTMLQQLTHHSVNGCNLRPGDLLASGTISGPEPENFGSMLELSWKGTKPIDLGNGQTRKFLLDGDEVIITGYCQGDGYRIGFGQCAGKVLPALLPS

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FIGURE 613

CTGAGGCCACGCAGGGCTAGGGTGGGAAG**ATGGCAGGTGGGGCGGCGACCTGAGCACCAGGAGGCTGAATGA**
ATGTATTCAACCAGTAGCAAATGAGATGAACCATCTCCTGCACACAGCCACGATTGCAAAGGATGTTCACGGA
AGACCAGGGTGTAGATGACAGGCTGCTCTATGACATTGATTCAAGCACTTCAAAGAAATAAGGTGGAGATTTC
AAATGCAATAAAAAGACATTCCATTCCCTGAGGGCTCCGTATCGTACATCACAAATAAAATGTTGA
AGATTCTCAAGATCTTAGAAACCTGGTCCCTGTACAGAGAGTGGTACAATGTTCTTAGTGAACTGGAGAA
GACATTIAACCTGCCAGTCTGGAAGCAGTGTCAACATGCAGGAATACCCGATTTAACATCACAT
TTATAAAGGCTTGTAAAATGTAATCCATGACAAATTGCTCTCCAAGAAAGTGAAGAAGAAGAGAGGGAGGAG
GTCTGGCCTCCAACTAAGTCTGAACAAGGAACGGTAAAACCTTTGAAAGCCTGACTGGCCACCTCGGG
TTCCCCATCTCATGCTGGTACAACCCCACCTGAAAATGGACTCTCAGAGCACCCCTGTGAAACAGAACAGATAAA
TGCAAAGAGAAAAGATAACACCAGTGACAAAGATGATTGCTAGGAAGCCAACAAACAAATGAACAATGTGCTCA
AAAGGCTGAGCAACAGACTGCTGCGAACAAATTGCTGTCAAAGTGAATAATGGGATGCTGAAGGGAGATGCC
CTGCCCGTTGCCCTGTGATGAAGAAAGCCAGAGGCAGAGCTACACAACCATGGAATCCAATTAAATTCTGTT
TGTGCGACTGGTGGATATAAAAAGAAAAGCCATTCTAATTCAAAGTTGAGTGCAGGCCAACAGAAC
TCATCATAACCAGGCATCTGACATAATAGTCATCAGCAGTGAGGACTCTGAAGGATCCACTGACGTTGATGAGCC
CTTAGAAAGTCTCATCTCAGCACCGAGAAGTGACCCCTGTGATCAATAATGACAACCCTTAGAATCAAATGATGA
AAAGGAGGGCCAAGAACGCACTTGCTCACGACCCAGATTGATCAGAGGCCATGGATTCAGAAAATTATCTAC
ATTCAAGAGAAAAGTTAAGAAAAGAGTGATAGGACAAGACCACGACTTTCAGAATCCAGTGAGGAGGGCGCC
CGCAGAACGCTCAAGCGGGCACTGAGAACAGATGGTGAGAAGGCTCTATGACTCTAGAAGTACATCTAC
TTGGAGAATACCCAGCAGGAAGAGACGTTCAGCAGTAGTGACTTTCAGACCTGAGTAATGGAGAACAGCTTC
GGAAACCTGCAGCTCATCCCTAAGAAGAGGGTCAGGATCACAGCCACAAGAACCTGAAAATAAGAAGTGCCTCG
TGTATGTGTTCCAAAAGGTGTGCAAGAACGCAAGAACAGGACTGAAAGTAGTCAGCATCTGACATGAT
GGATAACCATGGATGTTGAAAACAATTCTACTTTGAAAAACACAGTGGAAAAGAAGAAAAAGAGAACGGCATAG
ATCTAAAGTAAATGGTCTCCAAAGAGGGAGAAAGAACAGACAGACCTAGAAAACATTAACTCTGAATAACAAAGT
CCAAAAGAAAAGATGGCAACAAAGAGGAAGAAAAGCCAACACTAGACCTTGAAGAAGAACAGAGGTCC
AAGAATTCCCAAAGATGAAAATTAAATTAAACAAATCTGAACCTCTGTGACCTGTTGAGGTGAAGGGCAC
TCTATATAAGGAGCGATTCAAACAAGGAACCTCAAAGAACGTTGAGGATAAAAAGTGGTCACTCC
CAGGGAAATTGAAAGGAGACCGCGGAGCATCCAAGAACGCTAAGTATACGCTGCGGTGGATATAC
CCTGAAAGTCCTGATGGAGAACAAATTCTGCCAGAACACCACCAAGCACAAGAACAGAACAGAACAGAAC
CAACAATACCTTAGTTGACCCCTGTGAGGAGCATAAGAAGAACCCAGATGCTCAGTCAAGTCTCAGAGTT
TTTAAAGAAGTGCTCAGAGACATGGAAGACCATTCTGCTAAAGAGAAAGGAAATTGAAAGATATGGCAAAGGC
GGACAAGGCCATTATGAAAGAGAAAACCTATATCCCTCTAAAGGGAGAAAAAGAACAGTCAAGGA
TCCCAATGCACCCAAGAGGCCCTTTGGCTTTCTGTCTGAGTATGCCAAAAATCAAAGGAGA
ACATCCTGGCCTGTCATTGATGATGTTGAAAGAAACTGGCAGGGATGTTGAAACACCCGCTGCAGCTGACAA
GCAGTTTATGAAAAGAGCTGAAAGCTGAAGAAAATACAAAAGGATATTGCTGCATATCGAGCTAAAGG
AAAGCCTAATTCAAGCAAAAAGAGTGTCAGGCTGAAAAAGCAAGAACAGAACAGAACAGAACAGAACAG
AGAGGATGAACAAGAGGAGAAAATGAAGAACGATGATAAATAA**GTGCTTAGTGCAAGTTTTCTTGTC**
TATAAACGATTTAACGCTGCTGTACACAACCTACCTCTTAAAGAAAAAAACTTCAACGTAAGACTGTGTAAGA
TTTGTGTTAAACCGTACACTGTGTTTTGTATAGTTAACCAACTACCGAATGTTCTCAGATAGCCCTGTCC
TGGTGGTATTAGCCACTAACCTTGCTGGTACAGTATGGGGTTGTAATTGCCATGAAATTAAAGCAGGT
TCTTGTTAGTGCACAGCACAAATTAGTGTATAGGAGGATGGTAGTTTACCTCAGTGTCTGATGTAG
CTTATACAAAACATTGTTCTGTTAAGTGAATGCCACTCTGTAATTGCAAAAAAAACAGTGCAGCTG
TTTGTGACATTCTGAATGCTCTAAGTAAATACAATTAAACCGTATGAGGGAACTGTGAGACAAGG
TACCAAGGTCACTCTTCCATTAGCTCCACAAAGCCAATCTCAATCCCTCAAAACAATCTGTCATA
CTTGAAAATATGACACTCTAGTCACAGCCTGGTAAAATAATCAGTGTGTTCCAATCTGCTGTTACAAAAGAAA
CAGATTATTATTGAACCTATGCAAATAACCATGTCATAAGAACGTTATGAATAGTTCCAAATTATGGCAAAT
TCATGTAGAGAGAGAAAAGTAACGTTGGTTGCTCACAAAGTCTACTTACCTAAGGGCTGTCAGATATA
AGTAACCTAAAAGAAAGAGAACGTTCTGACTTTGAAAACAAAATATGAAAAGAACATGGCAATGTTCAAACA
AAAAGTCATAAAAGTCACTTATTCCATCAAAAAAAAAAAAAAA

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FIGURE 614

MAGGGGDLSTRRLNECISPVANEMNHLPAHSDLORMFTEDQGVDDRLLYDIVFKHFKRNKVEISNAIKKTFPFL
EGLRDRDLITNKMFDSDSCRNLVPVQRVVNVLSELEKTFNLPVLEALFSDVNMQEYPDLIHIYKGFENVIHD
KLPLQESEEEEREERSGLQLSLEQGTGENSFRSLTWPPSGSPSHAGTPPENGLEHPCETEQINAKRKDTSDFK
DDSLGSQQTNEQCAQKAEPTESEQIAVQVNNGDAGREMPCPLPCDEESPEAELHNHGIQINSCSVRLVDIKKEK
PFSNSKVVECQAQARTHHNQASDIIIVISSEDSEGSTDVDEPLEVFISAPRSEPVINNDNPLESNDEKEGQEATCSR
PQIVPEPMDFRKLFRESFKKRVIGQDHFSESSEEAAPEASSGALRSKHGEKAPMTSRSTSTWRIPSRKRRF
SSSDFSDSLNSNGEELQETCSSLRRGSGSQPEPENKKCSCVMCFPKGVPRSQEARTESSQASDMMDTMDVENNST
LEKHSGKRRKKRHRSKVNGLQRGRKKDRPRKHLLNNKVQKKRWQQRGRKANTRPLKRRKRGPRIPKDENINF
KQSELPVTCGEVKGTLYKERFKQGTSKKCIQSEDKKWFTPREFEIEGDRGASKNWKLSIRC GGYTLKVLMENKFL
PEPPSTRKKRILESHNNTLVDCEEHKKKNPDASVKFSEFLKKCSETWKTIFAKEKGKFEDMAKADKAHYEREMK
TYIPPKGEKKKKFKDPNAPKRPLAFFLFCSEYRPKIKGEHPGLSIDDVVKLAGMWNNNTAAADKQFYEKKAALK
KEKYKKDIAAYRAKGKPNSAKKRVVKAEKSKKKEEEDEEDEQEEENEEDDK

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FIGURE 615

GAGGCAGTTCTGTGCCACTCTCTCCTGTCAATGATGGATCTCAGAAATACCCAGCCAAATCTCTGGACAAG
TTCATTGAAGACTATCTCTTGCCAGACACGTGTTCCGCATGCAAATCGACCAGGCCATTGACATCATCTGTGGG
TTCCTGAAGGAAAGGTGCTTCCGAGGTAGCTCCTACCCCTGTGTGTGTCAGGTGGTAAAGGGTGGCTCCTCA
GGCAAGGGCACCAACCTCAGAGGCCGATCTGACGCTGACCTGGTTGTCTCAGTCCTCTCACCACTTTCAG
GATCAGTTAATGCCGGGGAGAGTTCATCCAGGAAATTAGGAGACAGCAGCTGGAAGCCTGTCAAAGAGAGAGAGCA
CTTCCGTGAAGTTGAGGTCCAGGCTCCACGCTGGGGCAACCCCCGTGCGCTCAGCTCGTACTGAGTTCGCTC
CAGCTCGGGAGGGGGTGGAGTTGATGTGCTGCCTTGTGATGCCCTGGGTCAAGTTGACTGGCAGCTATAAA
CCTAACCCCCAAATCTATGTCAGCTCATCGAGGAGTGCACCGACCTGCAGAAAGAGGGCAGTTCTCACCTGC
TTCACAGAACTACAGAGAGACTTCTGAAGCAGCGCCCCACCAAGCTCAAGAGCCTCATCCGCTAGTCAAGCAC
TGGTACAAAATTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTGGAGCTCCTGACGGTCTATGCT
TGGGAGCGAGGGAGCATGAAACACATTCAACACAGCCAAGGATTCGGACGGTCTTGAATTAGTCATAAAC
TACCAAGCAACTCTGCATCTACTGGACAAAGTATTATGACTTTAAAAACCCCATTATTGAAAAGTACCTGAGAAGG
CAGCTCACGAAACCCAGGCCTGTGATCCTGGACCCGGCGAACCTACAGGAAACTTGGGTGGAGACCCAAAG
GGTTGGAGGCAGCTGGCACAAGAGGCTGAGGCCTGGCTGAATTACCCATGCTTAAGAATTGGGATGGTCCCCA
GTGAGCTCCTGGATTCTGCTGGCTGAAAGCAACAGTACAGACGATGAGACCGACGATCCCAGGACGTATCAGAAA
TATGGTTACATTGAAACACATGAGTACCCCTCATTCTCATAGACCCAGCAGCTCCAGGACGATCCACCCCCA
CAGGCAGAAGAGGACTGGACCTGCACCATCCTCTGAATGCCAGTGCATCTGGGGAAAGGGCTCCAGTGGTATC
TGGACCAGTTCTTCATTTCAAGGTGGGACTCTGATCCAGAGAAGACAAAGCTCCTCAGTGAGCTGGTGTATAA
TCCAAGACAGAACCCAAGTCCCTGACTCCTGGCCTTCTATGCCCTCTATCCTATCATAGATAAACATTCTCCACA
GCCTCACITCATTCCACCTATTCTCTGAAAATATTCCCTGAGAGAGAACAGAGAGATTAGATAAGAGAATGAAA
TTCCAGCCTTGACTTCTCTGTGCACCTGATGGGAGGGTAATGTCTAATGTATTATCAATAACAATAAAAATAA
AGCAAATACCAAAAA

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FIGURE 616

MMDLRNTPAKSLDKFIEDYLLPDTCFRMQIDHAIDIICGFLKERCFRGSSYPVCVSKVVGGSSKGTTLRGRSD
ADLVVFISPLTFQDQLNRRGEFIQEIRRQLEACQRERALSVKFEVQAPRWGNPRALSFVLSSIQLGEGVFDVL
PAFDALGQLTGSYKPNPQIYVKLIEECTDLQKEGEFSTCFTELQRDFLKQRPTKLKSLIRLVKHWYQNCKKKLGK
LPPQYALELLTVYAWERGSMKTHFNTAQGFRTVLELVINYQQLCIYWTKYDFKNPIIEKYLRRQLTKPRPVILD
PADPTGNLGGGDPKGWRQLAQEAEAWLNYPCKNWDGSPVSSWILLAESNSTDETDDPRTYQKYGYIGTHEYPH
FSHRPSTLQAASTPQAEEDWTCTIL

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FIGURE 617

GGGGGGGTAGAGGAAGCCGTGAGGCCGGAGCTTAGGTCGGGAAGGGATGGATCGCTGAGCCGATAGCGTCCGCTA
GGCTGTCTGCCTCGGTACCTGTTACTGCTGCTACTTCCTCGTTGACACCTCCTGGAATCTCTTGTATTTG
AGGAAATACCTAGTAACAAAC**ATG**ACTGAGTTCTGGCTTATATCTGCTCCTGGGAGAAAACCTGTCAGCAAACA
TGGGAGAAATTGCATGCGCAACTCAAAGAACAAATAATCTGCTGTCATTCCAAGTTCAATATTCCGTACTTA
AAGGTTGGCACGTTGGATGCTTGGCTTGTCAGATGAACGGCTAAACTGGATGCATTGTAGAAGGAGTG
GTTAAGGAAAGTAGCTCAATAACATGGCTGATGTATTGGAAGATAGCAAAGACAAAGTTCAAGAGAAATCTGTTGGCT
AATGGAGTGGACTTGGTTACTTATATAACAAGGTTCCAGTGGGACATGGCAAATATCCAATCAAGCAGTCCCTG
AAAAATATTCTGAAATAATTGCCAAGGGAGTAACTCAGATTGATAATTGACCTGAAATCTGAGCATCTGCATAC
AATAACCTGAAAGGAAATCTCAGAATTGGAACGAAAGAACATGCAGGAAGTTGCTAACTAGAAGTCTAGCAGAA
ATTGTGAAGAAGGATGACTTGTCTTGATTCAAGGTATCTCGTCACATTACTGGTAGTAGTTCCAAGGTAAAC
CACAACGACTGGATTAAGCAGTATGAAACACTAGCCGAAATGGTAGTTCCAAGGTCTAGCAATGTTCTTCAGAG
GACCAAGACAGTTACCTGTGTAATGTCACCTGTTAGGAAGGCAGTTGATGACTTCAGACACAAAGCCAGAGAA
ACAAACATTGTTCTGACTTCCAGTATAATGAAGAGGAGATGAAAGCAGATAAAGAAGGAAATGAACAGGCTT
TCTACTGATAAGAAAAACAAATTGGACCACTTGTAACGGTGGCTGAAAGTGAATTTAGTGAAGCATTATTGCA
TGGATTACGTGAAAGCATTACGGTTTCTGAGTCTGTTAAGGTATGGCTGCCAGTGAACCTCCAAGCA
ATGCTACTTCAGCCAATAAGAAAATTGAGAAGAAACTGAGAGAAGTATTACATGAATTGTATAAACATCTAGAC
AGCAGTGCAGCAGCTATTATTGATGCTCTATGGATATTCCAGGTTAACCTGAGTCAACAAGAAACTACCCCC
TATGTGTACTACAAGATTGATTGCAACTGCTGGAATTCAAGT**GAAAATGGGCTCCTCCCCGACAATCCTGTC**
TTGTGTTGTGCTAACAGAAATAAGTTGCAGTATGGTCGACTTTAACTCTAGTATCCTTGCTTGCCTC
TTACCCCCCTTCCTAGGTGAATTCTCCACAGTGGTCTGTATCTAACATTCTTTAAAGGAAAAATATAT
ATATATAGTTCTTTATTGATCAGGTCTGTAATGTGTACTAAAAAAATCAGAGTTATTATAACAAAATA
GTTTATTAAAGAGAAGGTCTTCCTTATTGATATCATGGTATGCATTAATTCCATTGTTACTATTGTCACA
AAAGCCCTGTTCACAGGGGAATGGTGTAAACATTATACTGTTTGTACTGTATTAGTAGACATACTGTTG
AATAGTTACTGAATCATGATGTAAGAACATATGTGACCCTCAGGTATGGGATTCTGAACGTTCAAATTCA
ATCAATGAGCACTGTCAACACCCACAGGAGAGAATAAAATTACCTGTGCAAAAAAAAAAAAAAAA
AAA

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FIGURE 618

MTEFWLISAPGEKTCQQTWEKLHAATSKNNNLAVTSKFNIPDLKVGTLDVLVGLSDELAKLDAFVEGVVKVAQY
MADVLEDSDKVQENLLANGVDLVTYITRFQWDMAKYPIKQSLKNISEIIAKGVTQIDNDLKSRSAYNNLKGNI
QNLERKNAGSLLTRSLAEIVKKDDFVLDSEYLVTLLVVVPKLNHNDWIQYETLAEMVVPRSSNVLSEDQDSYLC
NVTLFRKAVDDFRHKARENKFIVRDFQYNEEEMKADKEEMNRLSTDKKQFGPLVRWLKVNFSEAFIAWIHVKA
RVFVESVLRYGLPVNFQAMLLQPNKKTLLREVLYKHLDSAAAIIDAPMDIPGLNLSQQEYYPYVYYKID
CNLLEFK

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FIGURE 619

GTTCTGTGTCGCTGGTAGAGGAAGCCGTGAGGCCGGAGCTTAGGTCGGAAAGGGATGGATCGCTGAGCCGAT
AGCGTCCGCTAGGCTGTCTGCCCGTACCTGTTACTGCTGCTACTTCCTCGTTGACACCTCCTGGAAATCTCT
CTTGATTGGAGGAAATACCTAGTAACAAACATGACTGAGTTCTGGCTTATATCTGCTCTGGGAGAAAACCT
GTCAGCAAACATGGAGAATTGCATGCGCAACTCAAAGAACATAATCTGCTGTCACTTCAAGTTCAATA
TTCCTGACTTAAAGGTTGGCACGTTGGATGTTGGCTGTCAGATGAACGGCTAAACTGGATGCATTG
TAGAAGGAGTGGTTAAGAAAGTAGCTCAATACATGGCTGATGTATTGGAAGATAGCAAAGAACAAAGTTCAAGAGA
ATCTGTTGGCTAATGGAGTGGACTGGTTACTTATATAACAAGGTTCCAGTGGACATGGCCAATATCCAATCA
AGCAGTCCTGAAAAAATATTCTGAAATAATTGCAAGGGAGTAACTCAGATTGATAATGACCTGAAATCTCGAG
CATCTGCATACAATAACCTGAAAGGAAATCTCAGAATTGGAACGAAAGAACATGCAGGAAGTTGCTAAGTAGAA
GTCTAGCAGAAATTGTGAAGAAGGATGACTTGTCTGATTGAGTATCTGTCACATTACTGGTAGTAGTT
CCAAGTTAAACCACAACGACTGGATTAAGCAGTATGAAACACTAGCCGAAATGGTAGTTCAAGGTCTAGCAATG
TTCTTCAGAGGACCAAGACAGTTACCTGTAATGTCACCTTGTAGGAAGGCAGTTGATGACTTCAGACACA
AAGCCAGAGAAAACAAATTCTGTTGCTGACTTCCAGTATAATGAAGAGGAGATGAAAGCAGATAAAAGAAGAAA
TGAACAGGCTTCTACTGATAAGAAAAACAATTGGACCACCTGTACGGTGGCTGAAAGTGAATTTAGTGAAG
CATTTATTGCAATGGATTACGTGAAAGCATTACGGGTTTCTGTTGAGTCTGTTAAGGTATGGCTGCCAGTGA
ACTTCCAAGCAATGCTACTTCAGCCCATAAGAAAACCTTGAAGAACACTGAGAGAAGTATTACATGAATTGTATA
AACATCTAGACAGCAGTGCAGCAGTATTATTGATGCTCCTATGGATATTCCAGGTTAACCTGAGTCACAAAG
AAATACTACCCCTATGTGTACTACAAGATTGATTGCAACTTGTGGAATTCAAGTGAAAATGGCTCCTCCCCCGA
CAATCCTGCTTGTGTTGTCGTAACAGAAAATAAGTGCAGTATGGTCGTACTTTAACTCTAGTATCCT
TTGCTGCTTCTTACCCCTTCTAGGTGAATTCTCCCACAGTGGTGTATCTCAACATTCTTTAAAGG
AAAAAAATATATATATAGTTCTTTATTGATCAGGTCTGTAATGTGTACTAAAAAAATCAGAGTTATTAA
TAAACAGAATAGTTATTAAAGAGAAGGTCTCTCCTTATTGATATCATGGTATGCATTAATTCCATTGTTAC
TATTGTCACAAAGCCCTGTTCACAGGGGAATGGTGTAAACATTTACTGTTGTTCACTGTATTAGTAGA
CATAACTGTTGAATAGTTACTGAATCATGATGTAAGAACATATGTGACCATCTTCAGGTATGGGATTCTGAACGT
TTCAAATTCAATCAATGAGCACTGTCAACACCCCACAGGAGAGAATAAAATTACCTGTCGAAAGGTGTATTGTGG
TGTGTGTAACCTAACGATTCTGTTGAGAGTTAAATGATGTCATAGCTCACTTGCTATGCTGCTTCCAGG
ATTTGTTATATGCTGAGGTGTAAACCATTGTTGCTGACTTCGTATGATTAAATTGAGCCAATTGGGTC
AGAACACAAATTGAAGATGACTTTCACTATGATGGGTATTTACATTGAAACACTAGAACATTAGGTCTCTC
AAATAATTAAAGAACAGGCCAGTTGAATAAAGTCTAGCAGAACTATG

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FIGURE 620

MTEFWLISAPGEKTCQQTWEKLHAATSKNNNLAVTSKFNIPDLKVGTLDVLVGLSDELAKLDAFVEGVVKVAQY
MADVLEDSKDKVQENLLANGVDLVTYITRFQWDMAKYPIKQSLKNISEIIAKGVTQIDNDLKSRSAYNNLKGNL
QNLERKNAGSLLTRSLAEIVKKDDFVLDSEYLVTLLVVVPKLNHNDWIQYETLAEMVVPRSSNVLSEDQDSYLC
NTVLFRKAVDDFRHKARENKFIVRDFQYNEEEMKADKEEMNRLSTDKKQFGPLVRWLKVNFEAFIAWIHVKA
RVFVESVLRYGLPVNFQAMLLQPNKKTLLREVLYKHDSSAAIIDAPMDIPGLNLSQQEYYPYVYYKID
CNLLEFK

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FIGURE 621A

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FIGURE 621B

TGAGTATCTCTGGGAGGCCTCATGTCCTGTGGCTTTACCACTGTGCAGGAGAACAGACAGAGGAAT
GTGTCTCCCTCAAGGCCAAAGCCTAGAGAAAGGGTCTGGTTAGCAATGCATCGTCTG
AGGTGACACTCTGGAGTGGTAAGGCCACAAGGTGCAGGGTAATACTCTGCCAGTTGAAATATAGATGC
TATGGTCAGATTGTTAATAGAAAACAAAGGGCAGGGGAAGTGAAAGGAAAGATGGAGGTTGTGCGGC
TCGATGGGCATTGAACTCTTAAAGTCATCTCATGGTCTCCAGTTCACTGGTAACCTGGTGTAA
CACTTAAGGGAGACAAAGGCTGTGCCATTGGCAAAACTCCCTGGCACAGACTCTAGGTGATGTGAAGC
TGGCAGTCTGTTGTGGAGAGCAGCCATCTGCTGCCATTCAAGGGATTCTAAAGACATGGCTGGATGCGCT
GCTGACCAACATCAGCACTAAATAATGCAAATGCAACATTCTCCCTGGGCTTGAACATCCTGCCCTA
TCATTTGGGTGAAGGAGACATTCTGCTTGGCTCCACAGCCCCACGCAGTCTGTGATGATTCTGGGA
TCCAACGAGCCCTCTTACAGTGTCTGATTGCTCACAGCCCAGGCCATGCTGTCTGAATGC
AGCCCTGTTCTCAACAACAGGGAGGTATGGAACCCCTGTGGAACCCACAAGGGAGAAATGGGTGATAAAGA
ATCCAGTTCTCAAAACCTCCCTGGCAGGCTGGCTCCCTCCTGCTGGTGGCTTCCTGCACACCACT
CCCACCACGGGGGAGAGCCAGCAACCCAACCAGACAGCTCAGGTGTCATCTGATGGAACCACTGGCTCAA
ACACGTGCTTATTCTCTGTTATTGCTGTACTTGAAGCATGGAATTCTGTTGGGGATCTGGGG
CTACAGTAGTGGTAAACAAATGCCACCGGCAAGAGGCCATTAAACAAATGCTCTGTGCTGAGGGCCCCAG
CTTGCTCGGGCGTGGCACAGTGGGAATCCAAGGGTACAGTATGGGAGAGGTGCACCTGCCCCACTGCTA
TCTCGCTAGACACAGTGTCTGCCAGGTGACCTGTTCAAGCAGAACAGCCAGGGCATGGGACGGGG
AGTTTCACTGGAGATGGACACCAAGACAATGAAGATTGTTGTCACAGGTCAATAATTCTGGAGACTCT
TGGAAAAAACTGAATATTCAGGACCAACTCTCCCTCCCTCATCCACATCTCAAAGCAGACAATGTAAG
AGAGAACATCTCACACACCCAGCTGCCATGCCACTCATCTGAATTCAAGGCCATCACTGCTCTTCTT
CTTCTTGTCAATTGAGAAAGGATGCAAGGAGAACATTCCACAGATAATCTGAGGAATGCAAGAAAACCAGGGC
AGGACAGTTATGACAATGCAATTAGAACTTGGTGAGCATCCTCTGTAGAGGGACTCCACCCCTGCTCAACAGCTT
GGCTCCAGGCAAGACCAACCACATCTGGTCTGCCTCGGTGGCCACACACCTAACGTCATGTCATTGCC
ATAGCATCATGATGCAACACATCTACGTGAGCACTACGACGTTATGTTGGTAATGTGGGATGAACTGCA
AGGCTCTGATTAAGGATGTGGGAAGTGGCTGGGTACTGTCGGCTTGCAAGGCCACCTGGAGGCCTGCTG
TTAGCCAGTGGTGGAGGAGCAAGGCTTCAGGAAGGGCAGCCACATGCCATCTCCCTGCATCAGGCAAAAAG
TGGAAATTAAAAGTCAAACCTTATATGCATGTTATGTCATTGCAAGGATGAACTGAGTTAAAAGAATT
TTTTCTCTCAAGTTGCTTGTCTTCCATCCTCATCACAGCCCTGTTGAGTGTCTTATCCCTGAGCAA
TCTTCGATGGATGGAGATGATCATAGGTACTTTGTTCAACCTTATTCTGTAAATATTCTGAAA
AGGAGAACAGAGATGAGATTGACAAAAAAATTGAATTAAAATAACACAGTCTTTAAA
ACTAACATAGGA
AAGCCTTCCTTATTATTCCTCTTAGCTTCTCCATTGCTAAATCAGGAAAACAGGAAACACAGCTTCTAG
CAGCTGCAAAATGGTTAATGCCCTACATATTCCATCACCTGAAACAATAGCTTAGCTGGAAATCTGAGA
TATGATCCCAGAAAACATCTGCTCTACTCGGCTGCAAAACCCATGGTTAAATCTATATGTTGTGATT
CTCAACTAAAATAGAGATGATAATCGAATTCTCATATATTCACTAACAGACACTATTTCTACTAGAT
TCCTGAGACAAATACTCACTGAAGGGCTTGTAAAATAATTGTTGCTTGTCTGAGATAATGCC
TTCTATTAGGTAGAAGCTGGAATCCCTTATTGTCAGTGTGCTTATCTGCAAGGTGGCAAGCAGTTCT
TTCAGCAGATTTGCCACTATTCTCTGAGCTGAAAGTTGTCATAGATTGGCTTAAGCTGAAATTAGATCC
CTGCAAAGGCTTGCCTGTGATGTCAGATGTAATTGTAATGTCAGTAATCACTCATGAATGCTAAATGAGA
GTAAGTATTAAATGTTGACTATTCAAATTGTTGAGTAACTGCAATTACAAGATTCTATGCAAGGATT
ACCTTCATCCTGTGCATGTTCCAAACTGTGAGGAGGGAAAGGCTCAGAGATCGAGCTCTCCCTGAGTTCTAA
CAAAATGGTGTGCTTGAGGGTCAGCCTTAGGAAGGTGCAGCTTGTGCTTGTGAGCTTCTGTTATGTGCGCTA
TCCTAATAAAACTCTAACACATT

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FIGURE 622

MATSMGLL LLL LLL TQPGAGTGADTEAVVCVGTACYTAHSGKLSAAEAQNHCNONGGNLATVKSKEEAQHVQRV
LAQLLRREAALTARMSKFWIGLQREKGKCLDPSSLPLKGF SWVGGEDTPYSNWHKELRNSCISKRCVSLLDLSQ
PLLPNRLPKWSEGP CGSPG SNSIEGFVCKFSFKGMCRPIALGGPGQVTYTPFQTTSSLEAVPFASAANVAC
GEGDKDETQSHYFLCKEKA PDVFDWGSSGPLCVSPKYGCNFNNGGCHQDCFE GGDSFLCGCRPGFRLLDDLVTC
ASRNPCSSSPCRGGATC VLGPHGKNYTCRCPQGYQLDSSQLDCVDVDECQDSPCAQECVNTPGGFRCECWVGYEP
GGPGE GACQDVDECALGRSPCAQGCTNTDGSFHCSCEEGYVLAGEDGTQCQDVDECVGP GGPLCDSLCFNTQGSF
HCGCLPGWVLAPNGVSCTMGPVSLGPPSGP PDEEDKGEKEGSTVPR AATASPTRGPEGTPKATPTTSRPSLSSDA
PITSAPIKMLAPSGSSGVWREPSIHHATAASGPQE PAGGDSSVATQNNNDGTDGQKLLL FYI LGTVVAILLLA
LG LLVYRKRRAKREEKKEKKPQNAADSY SWVPERAESRAMENQYSPTPGTDC

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FIGURE 623A

TGCCTCTGCTGAGGTGATCTGGCGCAGAGCGGAGGGAGGTGCTTGGCGCTTCAGGCTCCCTCCCCCTGCG
GCCTTCTAACGTGGCCCTGCTTTGCGCTCCCGCAGAA**ATGT**GGATGACGCCAAAAGAAGCAAGATGGAAG
TCGACGAGGCTCTAGTTCCGGCCGAGTGGACCCAGCGTTATTGGTGGAGCCTCCGGAGGGCGATGGGG
CCCTGTGCCTGGCTGCGCCCTCATCGTAGCTACCGCGAACGCACGTAGGCGCCACTACGAGGCTGAGC
ACGAATACTACGAGCGGTATGTGGCGACGGCAGCGCGCCCTGGTGGAGCGTCTCGCTCAGGGCGACTTGC
CCGTGGCCCTCCCTCACTCCTGAAGAGAGAGCTGCTCGTCAGGCCTCGGGCTCTGCCCTCTGGCCCTGAAGG
GTCGCGGCTGGGGTGAGGGGGACTTTGTATACCACTGCATGGAGGTGTTGCTGAGAGAGGGTACTGCCCGAGCATG
TAAGCGCTCTGCAAGGCGTTGACTTATCTCCAGATATCACAAAGGCAGAGGATCTGAGCATTGACAGGAATCTAC
GCAACCAGCTTTAACCAGGCCAGGGACTTAAAGCCTATTCTTGCCTGGACGACCAGGCTTTGTGGCCT
ATGAGAACTACCTCCCTGGCTTTATCCGCGGTGAGGCGCTGAGTGGAGGTGCAAGAAGATCTCTGACCATAA
TCAACCTGACTCATTTCACTGTTGGTGCCTCATGTCGGCAATCTAGACTCCCTGAGCAGCAGGGCTTA
GCTTGCAGAGAATGGTGGACTGACCACGACCCATACTTGAGGATGATTGGTGGAGAACTCAGGACTCGTCTCAT
ACATGAGAGAAAAGGCCGTAAGCCCCACTGTTGGAATGTCATTCAATTCTCAGGATTTCTCACTTGGAACTGT
TGAGCTCCTATGATGTAGATGTTAATCAGATCATAAATACCATATCCGAAATGGATAGTTTGATTAAGACCAGAG
GCGTTAGGCACCTGAATTTCAGACTTTACTAACCGGAATCTGAATCAGAGCATGGTGAAGGGTTAATGGACGAT
GTCTGAACAATTGGCTTAGGAGAGGGAAAACCTTAAACAAACTAATATTCTCTCAAGAAAAGAAATGGAAGCGTTCT
TGGTTTCAGTAGGGCAACACAGTCCACTTCTCAGACAAACAATGGTTGTGACTTTGGCTTCTGGTGGACA
TTATGGAACACCTTCGAGAACTCAGTGAAGAATTACGAGTTAGTAAAGTCTTGTGCTGCTGCCTTGACCATA
TTTGTACTTCGAAGTAAAGCTGAATTTCAGACATATTGAGGAAAAAAATCTAACAGACTTCCCTGCC
TCAGAGAAAGTTGATGAGCTAAACAGCAAATAAGGAAGATGAAAAAAATTTGATCTGATAGGTATCAA
TGGTGAATCTGCTCCAAAAAGAATTGAGAGACATTAAAGGACCTCAGGTTCAATTAAAAGGACTTAGAAC
TTTTTCAAATCCATTAACTTAAACCTGAATATGCACCTATTCACTGAGGTTGGAGCTAACAAACTTCAGG
CAAACACTAATCTTGAATGAATACAGAACACTGGGACTTGGGAGCTTCTGAGGTTGGAGCTAACAAACTTCAGG
ACCCAATTATCAAAGGGTTGCCTGTAAGGTGGCATCCTGTTGATAGTAACCAAATCTGTGAAAGGCTTTT
CATATTGACTCGAAACACACTTGAAGTCAAGCATTAAACAGATGAGCATTCCAAAGCCCTTGGGTTG
CCACAACGTGAAATGGAGCCGGTTGGGATGACCTGTGAGAGAAGAAATGAATCTAACATCC**ATA**GGCTTGTAG
TACAAGATTGAAAAACTCAACAAGAATTAAATTCTAAAAGCAAATGGTTGAGTTCAAGTTACTAATT
GGATTGTGAGAAAGTACCAAGTACCGCCGTCAAACGATCACAAATTAAATTCTGACAGTTGCCTTTTT
ATCTCAAATGGCAGCATGGACTGAAACATGAGAATGCCACCTTTAAACACTTAGTTAGTGAACAAAGTCATT
GTCTTTATGATATAGTTAATTAAAGAGATTAGTATTAAATGTGAGTTGAATTGCACTGTTAGGTG
TTCTGAAGATAATGCCAAAATTCACTGTTAATTGAGTGTAAAATTCTGATTCTGATGTAGCTTAA
TTATCAACTCCTTAAATGTGTTGAACCAATTGCAAGCTCACATAGCAAGTTCAAGGTTCAAAGG
AAGCCACATAACAGTGGAGGTGTTGTCAACCATCAAATGTTGAGACTTTAAACATTCTGAG
TTCGAAGGTAATACTGACAGATTCTCCCTTCCCTCCCACCTACCCACCTCAGTGATAACACATTACTGATA
GAGGAAGTCATTAGAATCATTTAAGTTCACTGAGATATAGGAGACTTCATGCAATTGGAGATAAGACTAATT
GGGGTTTCTGGATTTTAAATACTGGGGCTATTATCAGCTGCTTAAAGGACTATGGTAA
GTATAGAATCTTAATGGTGCAGTTAGTAATTCTTTTTTTACTGTAGACACAAGTTGGCCCTATC
AAAAACGATGAGGAAAAAGATTGCACACTCCAGGATTAGGAGGTGTGAGATAATTAGCTTTGTCTTATCTGC
GTGGGTATTGCTGTTATTAAATCTGCTAAAGTAAACACTTGTGTTAAATGATACTGAGAT
TTTGTAGATGCTAGAAATGGATTATTCTAAATGGAAACTGTCGACACATTCTATATGTAAGATAGCACAC
AACTAGAAATATTAAAGCAGTCTTACAGATTGCACTGAGAATTCTGTTACTAAGATAATCTGCTT
TGCCAAACAGTAATTCCAAACTCTGTTACCATGAAAGGCAATCTAAAGTCATTATGTAAGAAACTAATT
TAAACAGGACCAATTATTCATAGATCCTCTCAAGTATTATACAATTAAACCTTGTCCAAGTCCTG
TCTTAACATTGAAACACCTTAATCTGTTACTAATCCAGCAAATTCAAGGAACCGAGCTATGACTAAGAATT
TAGGTGGAATTGATGTCTGGCAATTAAATGGCATAGAGCTTAAACCAAGTTGTGCCAGTGGCTT
CAACTAGAGGCAGTAACCTGCAATTCCAGAGGATGCTGAGAAATGTGAGGGCAGTTTGTTGTCATATT
ACTAGGGCTCTGTTGGCATTAAAGCTAAAGACACTCACCCCTGCACTGCACTGGACAGCCTGGCACAATGAA
GAATTAGCCCTCCAAAATGTAGATTATTCAAGGGATAGGGCAGATTACCAATTAGAACAAATTAAAA

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FIGURE 623B

GTACAAGCTGGCAAACTGACAGAATACTAGATAGGAGAGACTAATTCCAACCTCTAAATTGGCTAGTAAAGT
GCAATAAAGGCATTGATAAGTTCTGTTAGCTCACCATAGCACTTGTAATCAGGAATTAATAATTGAATCAGATT
TAAGGGCTCTGCTCGTTACATATTAAAGGCAGAAAAAAAGTTACATGTCGATTAGGTACTTATCAAGAATGG
TCAAGCTGAGATTTGGTAATAGAGTAAGCTTACATATCTAGAGAAACAACATAGTGGAAAACCGAAAAAA
AACAGAAAAATCTACCGGTAAATTCCCAGTAGCTTGAAATATTCACAGCAGAGCTTATTACTTGAGAGAAAGAC
TGGAAGACCTGAAAGCCACTCTGCTTCTAACCCAGTTCTAAATATTGAAATCTGTACATTTGTGAAAT
TCCAGTATGTTGCTTAAGGTGTTAAATAAAATTAGTTGCATCATGTAGTCATTGAGTGAGGGGGAGATATAAG
CCAAGGATTTAAATTGACCCCTAGCTATAGAGAATTGCTATAAGCTAGTCITGTTGT

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FIGURE 624

MWMTPKRSKMEVDEALVFRPEWTQRYLVVEPPEGDGALCLVCRRLIVATRERDVRRHYEAEHEYVERYVADGERA
ALVERLRQGDLPVASFTPEERAARAGLGLCRLLALKGRGWEGDFVYQCMEVLLREVLPEHVSVLQGVDLSPDIT
RQRILSIDRNLRNQLFNRARDFKAYSLALDDQAFVAYENYLLV FIRGVGPELEVQEDLLTIINLTHHFSGALMS
AILESLQTAGLSLQRMVGLTTHTLMIGENSGLVSYMREKAVSPNCWNVIHYSGFLHLELLSSYDVDVNQI INT
ISEWIVLIKTRGVRRPEFQTLTESESEHGERVNGRCLNNWLRRGKTLKLIFSLRKEMEAFLVSGATTVHFSDK
QWLCDFGFLVDIMEHLRELSEELRVSKVFAAAAFDHICTFEVKLNLFQRHIEEKNLTDPALREVVDELKQQNKE
DEKIFDPDRYQMVICRLQKEFERHFKDLRFIKKDLLELFNSNPFNFKPNEYAPISVRVELTKLQANTNLNEYRIKDL
GQFYAGLSAESYPIIKGVACKVASLFDSDNQICEKAFAFSYLTRNQHTLSQPLTDEHLQALFRVATTEMEPGWDDLVR
ERNESNP

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FIGURE 625

ATGTCTTTGTCAGCTGTCTTCAGAAGACCTGGTGGGCAAGTCCGTGGCATCATGTTGACCGAGCTGGAGAA
AGCCTTGAACTCTATCATGACGTCTACCACAAGTACTCCCTGATAAAGGGAAATTCCATGCCGTACAGGGA
TGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAGGGTGCAGACGTCTGGTTCAAAGA
GTTGGATATCAACACTGATGGTGCAGTTAACCTCCAGGAGTTCTCATTCTGGTATAAAGATGGCGTGGCAGC
CCACAAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGCCCTGGACATG
TACCTGCAGAATAATAAGTCATCAATACCTCAAAAAAAAAAAAAAA

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FIGURE 626

MLTELEKALNSIIDVYHKYSLIKGNFHAVYRDDLKKLLETCPQYIRKKGADVWFKELDINTDGAVNFQEFLILV
IKMGVAAHKKSHEESHKE

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FIGURE 627

GGCACGAGGCTGAGTGTCCGTCTCGCGCCCGGAAGCGGCGACCGCCGTAGCCGGAGGAGGAGGAGGAGG
AGGAGGAGGGGGCGGCCATGGGGCTGCTGTCCCAGGGCTGCCGTGAGCTGGAGAAACCAAGCGCCATGCCG
ACCACGTGCGCGGCACGGATCCTCAGTCAGTACATCTACCAAGCCGTCAAGGACCGCACAAGGACGTTC
TCAAGTGGGCATGAGGTGGAATAACATGTTGGTATCTTGATCATGAAAATAAAGTCCGGTTGGTCTGT
CTGGGGAGAAAGTCTGAAACTCTGCAAGAGAAAGGGAAAGGACAAACCCAACCCTACCCCTGGAGAC
CAGAGTATGGGAGTTACATGATTGAAGGGACACCAGGACAGCCCTACGGAGGAACAATGTCCGAGTTCAATACAG
TTGAGGCCAACATGCGAAAACGCCCGAAGGAGGCTACTTCTATATTAGAAGAAAATCAGGCTTTGACAATAA
CTTCATTCCCAGATTAGGCTGTCCTGGTTCACACTGCCGAGGTCAAACCCAACCCAGTGAAGGAGGAGCTT
CCAAGTCCCTTCTCCAGATGAAGCAATAAACAAAGCACCCCTCGCTCAGTACCTAACAGAAATATCCGAC
ATAGGAGAGGAGAAAGGTTGTATCAATGTACCAATATTAGAAGACAAGAATAACACCATCTCCATTAGAAA
CATTTACTGAGGATGATGAAGCTCAAGGGCTCTAAGCCGGATCATATTACATGGATGCCATGGGATTGGAA
TGGGCAATTGCTGTCAGGTGACATCCAAGCCTGCAGTATATCTGAGGCCAGATACTTATGATCAGTTGG
CTACTATCTGTCCAATTGTTATGGCTTGAGTGTGCATCTCCCTTACCGAGGCTATGTGTAGACATTGATT
GTCGCTGGGAGTGTATTCTGCATCTGTAGATGATAGAACCTGGGAGGAGCGAGGACTGGAGCCATTGAAGAAC
ATAACTATAGGATCAGTAAATCCGATATGACTCAATAGACAGCTATTATCTAAGTGTGGTAGAAATATAATG
ACATCGACTTGACCGATAGATAAAGAGATCTACGAACAGCTGTTGCAGGAAGGCATTGATCATCTCTGCCAGC
ATGTTGCTCATCTTTATTAGAGACCCACTGACACTGTTGAAGAGAAAATACACCTGGATGATGCTAATGAGT
CTGACCATTGAGAATATTCACTGACAAATTGGCAGACAATGAGATTAAAGCCCCCTCCTCCAAACTCAGACA
TTGGATGGAGAGTGAATTTCGACCCATGGAGGTGCAATTAAACAGACTTGTGAGAACTCTGCTATGTGGTTTG
TGGTACTGCTCACCAGAGTGATCCTTCTACAAATTGGATTTCTCATTCCACTGTCAAAGGTTGATGAGAAC
TGAAGGTAGCACAGAAAAGAGATGCTGCTTGCAAGGAATGTTTATTCAAGGAAAGATATTGCAAAGGTGGCA
ATGCAGTGGTGGATGGTTGGCAAGGCCAGAACAGCACGGAGCTCGCTGCAGAGGACTACACCTCATGAGCA
TAGACACCACATCAATGGAAAGGAAGGTGTTCTGGACTGATCCAATTCTGAACCTTACCTTGAAAACA
TGGAAAGTGGATGTTGGACACCAGATGTTGACTACCTAAAGCTAATTAAAGAAGAGAGCATCTGGAGAAC
TAATGACAGTTGCCAGATGGATGAGGGAGTTATCGCAAACCATCTGACTACAAGCAAGACAGTGTATAACTG
ATGAAATGAATTATAGCCTTATTTGAAGTGTAAACAAATTGCAAATGAATTATGTGAATGCCAGAGTTACTG
GATCAGCATTAGGAAAGTAAAATATAGTGAAGTAAAACCTGACTCATCCAACTAGACATTCTACAGAAAGAAAA
ATGCATTATTGACGAACGGCTACAGTACCATGCCCTCTCAGCCGTGTATAATTAGAAGACCAATGATAGAA
CTGTACTGTTCTGGCCAGTGAGCCAGAAATTGATTAAGGTTCTTGGTAGGTAATCTAGAGTTATACA
GTGTACATGTACATAGTAAAGTATTTGATTAACAATGTATTTAATAACATATCTAAAGTCATCATGAACCTGG
CTTGTACATTTAAATTCTACTCTGGAGCAACCTACTGTCTAAGCAGTTGTAAATGTTACTGGTAATTGTAC
AATACTTGCATTCCAGAGTTAAATGTTACTGTAAATTGTTCTTAAAGACTACCTGGGACCTGATTAT
TGAAATTCTCTTTAAACATTCTCGTAATTTCCTTGTCAATTCCCTTGTCTACATTAAATC
ACTTGAATCCATTGAAAGTGTCAAGGGTAATCTGGTTCTAGCACCTTATCTATGATGTTCTTTGCAAT
TGGAAATAATCACTTGGTCACCTGCCCAAGCTTCCCCCTCTGAATAATACCCATTGAACCTGAAAAAA
AAAAAAAAAA

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FIGURE 628

MGLLSQGSPLSWEETKRADHVRRHGILQFLHIYHAVKDRHKDVLKGDEVEYMLVSDHENKKVRLVLSGEKVL
ETLQEKGERTNPNHPTLWRPEYGSYMIEGTPQPYGGTMSEFNTVEANMRKRRKEATSILEENQALCTITSFPRL
GCPGFTLPEVKPNPVEGGASKSLFFPDEAINKHPRFSTLTRNIRHRRGEKVVINVPIFKDKNTPSPFIETFTEDD
EASRASKPDHIYMDAMGFGMGNCLQVTFAQCSISEARYLYDQLATICPIVMALSAASPFYRGYVSDIDCRWGV
SASVDDRTREERGLEPLKNNNYRISKSRYDSIDSYLSKCGEKYNDIDLTDKEIYEQLLQEGIDHLLAQHVAHLF
IRDPLTLFEEKIHLDANESDHFENIQSTNWQTMRFKPPPPNSDIGWRVEFRPMEVQLTDFENSAYVVFVVLLTR
VILSYKLDFLIPLSKVDENMKVAQKRAVLQGMFYFRKDICKGGNAVVDGCGKAQNTELAAEYTLMSIDTIIN
GKEGVFPGLIPILNSYLENMEVDVDTRCSILNYLIKKRASGEMLTVARWMREFIANHPDYKQDSVITDEMNYSL
LILKCNQIANELCECPELLGSAFRKVKYSGSKTDSSN

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FIGURE 629

CTGTGACACTGCCAGCAGCGCGCAGAGGGAGGGATGGGGCGGGTATCGCGTAGGGGCCCTCGGAAAGAACGGA
TATTGCTGTGACACC CGGGGACGCTCTGAAGGGACGAGTGC GGTCGGCACCGGTGCACGCTGAAGGAGGCCGG
CGGAACCGGGTGGCCATGGGGATGTGGGCATCGCTGGACGCTTGTGGAGATGCCGGCGAGAACGCTATCTC
GGGGCCGTGCTGCTCTTCTGGACAGTGTATCTTGGAGACCTCCTAGCACAGCGGAGAGAAGGATATAT
AAAACAACAACATGTACCA CCGAGTTAGGACAGATCATGGATTCTGAAACATTGAGAAATCTGACTCTAT
CAACTGGATAAAAGCACTTTCAGCTCTGGTCAGGACTCTATTCA GAGACTGAAGGC ACTCTTATTCTCTCTT
GGAGGAATACCTATCTCTGGAGACTTCTGGACGGTTCTGGTTATGCTGGCTTGGACAGAATATGAGATC
ACTCAGTCCCTGGTGTCTGCTGTGGCTACACTTCA GTGCA TTGACTGGTTGCCATGGAGTCTTATAAT
ACTTTGTGATAGAAGAAAACATGGCTTCAATCAACAGACTTGGGTTCTTCA TGAAGAGATGCAATCAAGAAA
TTTGTGACTCAGTGTATTTGTTGGCTGTCTTCACTTCACTTACATTATTAAAATTGGGGTGACTAT
TTTTTATTATGCCTGGCTGTACATTAGTTGTCTCTGGTTCTGTACAATCTATGCTGATTATATTGCC
CCTTATTGACAAATTCAACACCTCTGCC TGAGGGAAAGCTTAAAGAAGAAATTGAAGTAATGGCAAAGAGTATT
GACTTCCCTTGACGAAGGGTATGTTGGAAGGATCTAACGCTCTCCACAGCAATGCTTATTGGA
TTCTCAAGAACAGCAATAGTTGTTGACACTCTACTAGAAGAGTACTCTGACTAAACAAAGACATCCAG
GAGGATTCTGGCATGGAACCCCGCAATGAGGAAGAAGGGAAACAGTGAAGAAATAAGCTAAAGTTAAAATAAG
AAACAAGGATGTAATGAGGAGGTACTCGCTGACTAGGCCATGAACTGGGCACTGGAGTTGGACATACA
GTCAAAATATCATTATTAGCCAGATGAATTCTTCTGTGTTTTTTATTGCTGTATTAATTGGTCGAAAG
GAGCTTTGCTGATTGGTTTTATGATAGCCAACCCACTCTTATTGGACTATTGATCATCTTCCAGTTATT
TTTCACCTTACAATGAGGTCTTCTTGCCTAACAGCTCTAACGCCAGATTGAGTTCAAGCTGATGCA
TTTGCAAGAAAATTGGGAAGGCTAAAGACTTATATTCTGCTTAATCAAACAAAGATAACTTGGGATTC
CCTGTTCTGACTGGTTCTCAATGTGGCATTATTCTCATCCTCCACTGCTAGAGAGACTCAAGCTTGTAAA
ACTATGAAGCAACACTGAGATGTCCAGGATCTGACTGAAGACATTCTGATTATTCTGCTTGTGGCAGCATGT
TCCAGCTCTGATGTTTAAACTTTTTAGAAGAAAATAAGTACAGAAAAGCCCAGATTAAATACATT
AATATGTCATTAAAATGATTTAAATATTCACTTAAACACTGAATGAATTGAGCTTAATGTTTT
AAAGGCATAGTTTATCTTGACATCTAATTACCATCAAGTTGAAAATTATTGGAAAATACAGAACTCGTT
TTATTGTACTTATGAAATCTGATGTGAGGTGTTGAGGGCATATGTTGAAAGAGGGAGCATCACCACA
GGAATCCTTCTGTGAGGTGAAACAGTGGCCTGAAATCTGCTCACACCTAACCTGAAATCTGGCTTACT
TTCATGCTGTTATGATTCA CCTGGTGAATCAGTGTAAATAAGAAAGGTAATAGTTGGTAAGGCCATGTTA
TTAAATGAAAGTAGTTAGAAAATGCTCCTATTCTACCAAATTTTAATTCTTCTCCCTTCTGCTAC
ACAGTGATCAAGAGTTCTCATAGTCTTGAAGTTAGAAATTATGTATAGGATATTAAATCATTGAGTTTG
TGGGGTTTTGTTGTTCTTTGAAAATCCGTGCTTATCTTTCTCCACGTGGTAG
ATATGATCCCATTGGAGGTAAATTGATGCTTCTCTCATTCTGAGTAATAACATCCTTCACTCAGCAGA
GATGGCCATATTAAACACGTTGCTATGTTAAAAGTGGCAGAACAGGAAAGACCAATTAAAATAACATT
AAGCGACATAAGGATGAAACTGATGAATCTGTCACATTACAGGGAAAAAATAGTTCTATCTCTTCA
AAGGGCAGAAGAGTTTCAATTGTAATTATCTGTAAGTCATAAATATTACTTAATCAGGCCGTGAT
TCTACTTTGAAAATTACAGTTCTGAAATGCA GATAATGTTACTTGAAAACAAATGTCATGAATGATTCCA
GTTTTAAAGCTATATGTTCACTGCTCATATCTGTCCACTTCTGAAATGAGAACTTATTGTCCTAGAG
CTCTCACTCACTGATAATGCTTATTACCTCTGGCATTATTCAAAGTGGGATCAACTGTACGCCTTGGTAT
CTGACCATAAAGCTTTGCTCCGCTGACATTGGGTGATGCTTCACTGAAATATAATAAAAATAAAATCT
AGTTAAACTGCAATTATTATTTCTAAGGCTAAAGAGGAGCAGTCCTATGCTTTATTCA GATCCTTATC
TGTGACTTCATGCTGATAACTGCCTTCCCTCTGTGCCTTGAATACAATTCA GTTCTGCAAAAGTG
AAACATTAAACATTGCCAACGCAAATGT

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FIGURE 630

MGMWASLDALWEMPAEKrifGAVLLFSWTVYLWETFLAQRQRRIYKTTTHVPPELGQIMDSETFEKSRLYQLDKSTFSFWSGLYSETEGTLILLFGGIPYLWRLSGRFCGYAGFGPEYEITQSLVFLLLATLFSALTGLPWSLYNTFVIEEKHGFNQQTLGFFMKDAIKKFVVTQCILLPVSSLLLIIKIGGDYFFIYAWLFTLVVSLVVTIYADYIAPLFDKFTPLPEGKLKEEIEVMAKSIDFPLTKVYVVEGSKRSSHSNAYFYGFFKNKRIVLFDTLLEEYSVLNKDIQEDSGMEPRNEEEGNSEEIKAKVKNKKQGCKNEEVLAVLGHELGHWKLGHTVKNIIISQMNSFLCFFLFAVLIGRKELFAAFGFYDSQPTLIGLIIFQFIFSPYNEVLSFCLTVLSRRFEFQADAFAKKLGAKDLYSALIKLNKDNLGFPVSDWLFSMWHYSHPPLLERLQALKTMQH

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FIGURE 631

CACCCTGTAAGTGGCTGCGGCGGGAAAGATGGCGGAGCTGCGCGTGTCTGTAGCTGTCAAGAGGGTCATCGACTAC
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCAGCTCCATGAACCCCTTC
TGTGAGATCGCGGTGGAGGAGGCTGTGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTATCGCCGTAGCTGT
GGGCCTGCACAGTGCCAGGAGACGATTGTACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG
CCCCCAGCAGAACGAGCTGGTCCCCCTGCAGGTGGCTCGGGTCTGGCCAAGCTGGCAGAGAAGGAGAAG
GTGGACCTGGTGCTGCTGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATT
CTTGACTGGCCACAGGGCACATTGCCCTCCCAGGTGACGCTGGAGGGGACAAGTTGAAAGTGGAGCAGGAGATC
GATGGGGGCTGGAGACCTGCCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC
TACGCCACGCTGCCAACATCATGAAAGCCAAGAAGAAGATCGAGGTGATCAAGCCTGGGACCTGGGTGTG
GACCTGACCTCCAAGCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGCCGGCGTCAAGGTGGAGACC
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTTGACCCCCTCCCAGAGATGCAATAAAACTGAC
TCTCAACATCAAAAAAAAAAAAAAAA

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FIGURE 632

MAELRVLVAVKRVIDYAVKIRVKPDRGVVTDGVKHSMNPCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI
RTALAMGADRGIHVEVPPAEAERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDCNQTGQMTAGFLDWQPQGTFA
SQVTLEGDKLKVEREIDGGLETRLKLPAVVTADLRLNEPRYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

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FIGURE 633

GATAGGATCACCA CGGTGGTAA CCTCTCACATT GTCTCCACAGGAGGC GTCTGACACAGT **ATG** ATGATGAAG
ATCCC ATGGGCAGC ATCCCAGTACTGATCTTGCTCCTGCTCCTGGCCTAATCGATATCTCCAGGCCAGCTC
AGCTGCACC GGGCCCCCAGCCATCCCTGGCATCCGGTATCCCTGGGACACCTGGCCCGATGCCAACCTGGG
ACCCCAGGGATAAAAGGAGAGAAAGGGCTTCCAGGGCTGGCTGGAGACCATGGTAGTT CGGAGAGAAGGGAGAC
CCAGGGATT CCTGGGAATCCAGGAAAAGTCGGCCCCAAGGGCCCCATGGCCCTAAAGGTGGCCAGGGGCCCT
GGAGCCCCAGGCCCAAAGGTGAATCGGGAGACTACAAGGCCACCCAGAAAATCGCCTCTGCCACAAGAAC
ATCAACGTCCCCCTGCGCCGGGACCAGACCATCCGCTTCGACCACGTGATCACCAACATGAACAACATTATGAG
CCCCCGAGTGGCAAGTT CACTGCAAGGTGCCCGGTCTCTACTACTTCACCTACGCCAGCTCTGAGGGAAC
CTGTGCGTGAACCTCATGCGTGGCCGGAGCGTGCACAGAAGGTGGTCACCTTCTGTGACTATGCCTACAACACC
TTCCAGGTCAACCACCGGTGGCATGGTCTCAAGCTGGAGCAGGGGAGAACGTCTCCTGCAGGCCACCGACAAG
AACTCACTACTGGCATGGAGGGTGCCAACAGCATTTCGGGTTCTGCTTTCCAGATATGGAGGCC **TGA**

CCTGTGGGCTGCTCACATCCACCCGGCTCCCCCTGCCAGCAACGCTCACTTACCCCCAACACCACCCCTTGC
CCAGCCAATGGACACAGTAGGGCTTGGTGAATGCTGCTGAGTGAATGAGTAAATAAACTCTCAAGGCCAAGGAA
CAGTGGTCTAATTCAACTCTGTGCTCCAGCACTGGCACACCCAGAAGTGCCTAGCTCAGAAATGTTGGTTACATGA
ATGAATGAACCATGAATGAATG

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FIGURE 634

MMMKIPWGSIPVLLLGLIDISQAQLSCTGPPAIPGIPGIPGTGPDGQPGTPGIKGEKGLPGLAGDHGEFG
EKGDPGIPGNPGKVGPKGPMGPKGGPGAPGAPGPKGESGDYKATQKIAFSATRTINVPLRRDQTIRFDHVITNMN
NNYEPRSGKFTCKVPGLYYFTYHASSRGNLCVNLMRGRERAQKVVTFCDYAYNTFQVTTGGMVLKLEQGENVFLQ
ATDKNSLLGMEGANSIFSGFLFPDMEA

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FIGURE 635A

GGACTGTGTGTCGGCTGTAGCAGACGCGAGGCAGCGACGAGGCCGGGACCCGCGCAGGGGGCGCCGGGG
 AGCGCGCGCGCGCCAGAACAGTAGCAGCAGGACCGCGCGACGGCAGCCCTGAATGCATTTCCTC
TCCAGCGGCC**ATGTTAAC**CAGGAAACCTTCGGCCGCCCTCCCGCCCTACCCGACCAGGAGTGGGACTGGCCC
 CGCCGTTCGTCAGCTCAGGTTCCCCGGGCTCGGTGCAGGGCCCACCCGGAGCGGAGTGGGACTGGCCC
 CTCCCCCATGCCCTGCCGCTCTCCGGGCCAGCAACGCTGCCGCCAGCCCACACGATTGGCGCAGTAAGCA
 CACAATGAATGATCACCTGCATGTCGGCAGCCACGCTCACGGACAGATCCAGGTTAACACAGTTGTTGAGGATAA
 CAGTAACAAGCGGACAGTGTACGACACAACAAATGGGCTAACACAGTGGGAAAACGGGCTTGCCAGTGGT
 GCCAGAGCGGCAGCTGGACAGCATTCAAGACGGCAGGGAGCTCCACCTCTAAAGTCCATGGAAGGCATGGG
 GAAGGTGAAAGCCACCCCATGACACCTGAACAAGCAATGAAGCAATACATGCAAAACTCACAGCCTTCGAACA
 CCATGAGATTTTCAGTACCCGAAATATATTCTGGGCTAAATGCTAACAGCAGGCGCCAGGGCATGACAGGTGG
 GCCCAACAATGGTGGCTATGATGATGACCAGGGATCATATGTGCAGGTGCCACGATCACGTGGCTACAGGTA
 TGAGGTCTCAAGGTATTGGGAAGGGGAGCTTGGGAGGTGGTCAAGGCCTACGATCACAAAGTCCACCAGCA
 CGTGGCCCTAAAGATGGTGGGAATGAGAAGCGCTTCCACCGCAAGCAGCGGAGGAGATCGAATCTGGAAACA
 CCTGCGGAAGCAGGACAAGGATAACACAATGAATGTCATCCATATGCTGGAGAATTTCACCTCCGCAACCACAT
 CTGCATGACGTTGAGCTGAGCATGAACCTCTATGAGCTCATCAAGAAGAATAATTCCAGGGCTTCAGTCT
 GCCTTGGTCGCAAGTTGCCACTCGATTCTGCAGTGCTGGATGCTTGCACAAAAACAGAATAATTCACTG
 TGACCTTAAGCCCGAGAACATTGTTAAAGCAGCAGGGTAGAAGCGGTATTAAAGTAATTGATTTGGCTCCAG
 TTGTTACGAGCATAGCGTGTCTACACGTACATCCAGTCGCTTTTACCGGGCTCCAGAAGTGTACCTTGGGGC
 CAGGTATGGCATGCCATTGATATGTGGAGCCTGGGCTGCATTAGCAGAGCTCTGACGGGTTACCCCTCTT
 GCCTGGGAAGATGAAGGGACAGCTGGCTGTATGATTGAACTGTTGGCATGCCCTCACAGAAACTGCTGGA
 TGCATCCAACGAGCCAAAAATTGAGCTCCAAGGGTATCCCCGTTACTGCACTGTCAGCAGTCTCTCAGA
 TGGCTCTGTTCTAAACGGAGGCCGTTCCGGAGGGGAAACTGAGGGGCCACCGAGAGCAGAGTGGGG
 GAACCGCCTGAAGGGGTGTGATGATCCCCCTTCCTGACTCTTAAACAGTGTAGTGGGATCTGCAGT
 GCGCATGACCCAGGCCAGGTTGCGCACCCCTGGCTGAGGAGGCGGTTGCCAAAGCCTCCACCAGGGGAGAA
 AACGTCACTGAAAGATAACTGAGAGCACCGGTGCTATCACATCTATCCAAGTTACCTCCACCTCTAGCTC
 AGCTTCAAACGAGGACTAATTGGCGCAGATGACAGATGCCAATGGAAATTCAAGCAGAGCAGTGTG
 AAAACTGTTAGCT**G**ACTCACGTCCTGATGCTGGTAACCTGAAAGATAACGACATTGCTGAGCCTACTGGGT
 TGAAAAGGAGTAGCTCAGACCTGTTTATTGCTCAATAACTCTACTCATTGATCTTCACTGACTTAATT
 TAATGTAAGAAAGTTGTTCTTTGTTTATAAAACATGAGGACAATGTTAAGTTTATACTTCA
 ACTTTTGTTCTAAAGTACAATGAGCCTTACTGTATTAGTGTGGCAGAATAAAACATCAGTGGCAGGCCA
 CTGATTACTTCATGACTGCCACGCATTACAGATGGTGTCAAAGACATTCACTATGTTTATGGTCTGTTA
 TATCCTCCCAGGGTACAGCCCCCTTAAGGCCCTCTTCCCTCATGCTCCAGGTCCATGCACAGGTGTAGCA
 TGTCTGCTCCGTTTCTAAATTCTGGGTGTTGGGGTAGTGGGAGGAGAACGGTCAGAATCAAAGTGA
 CATTCTAAGAAAAACTGTACCTTAGAGATTTCCTCTAGTGTCAAACAAATACAAAATAAGATCCCCAAGGTT
 AAAACTGCCAGTTGACATTCTGACATTCTAAAGCCGGCAAAGCAGCTTGTAGGGATAAATGGGAATGGAAACG
 TGTGTGTTCTCCAAATTCTAGTATGATCGGTGAGCTGTTGTAAGAAGCCTCATATTACAGAGTTGCTT
 TGCACCTAAATTAGAATTGTTCTGCTGAACTGTTCCCTCCCTTCTGCTTTCTCCTCTGTTCTCTT
 TAATACACACGTCGTTGCTGATTAGTGTCTTCTCCTCAGCTGTGATCCAGACTGTTAATACAGA
 AAAGAGACATTCTAGCTGTGATTGACCATTTGTTCTGATATTCAAATTAAAAAGAACAGCAGCCTAGCTACTT
 AACGGTGGGAGTTCTAGTCCAAAGAACAGATTAGCAGATTAGAGTGTGAGTTCACTTTCAAGGTGCCACTGTA
 GGTTCTCAGCCTGGAAACTATCAACTCTTCTTAAAGAACAGGGTTGAAATCCTCTGGAGAACAGA
 AGTCACTTGGCTGTTCAAGGCCAATGTTAACACACGTTAGAGGAGGAAAAGTCAACCTCAAGTTAA
 GGTTGACTTATTCTCTGATCATTAGAAGAACCCAGAGATGCACTCCCTATTTATTACTTCTTTGG
 ATTGCACTGATTGTTTGTGGGAATGACACTTATCTGGCAAAGTAACGTGAGAGTTGGTAAAGAATATTTC
 TTCTCTGAAATAATTATTTCACAGTGAACATTTCAGTATTGTTACTAATGATGAGCAATGATCTATATC
 AATTCAAGGCACGTGAAAAAAATTGTTAGTATGTCAGGATAAGTAAAGATTTCTGCTGTTGGACAAT
 AGGTTGGTAGTACAGATTAGGATAAGTAAAGCTTATATGCAACAGAGATTATTGATTACCTGAAATTGAT
 TTACAAGTACTAAAAGCGTGGCCCCAGTGAGGCCAAGAAAGTTCCGGTTAAGTTCTTAATAATACTCCTAC

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FIGURE 635B

AGTTTATCTTAAGAA

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FIGURE 636

MLTRKPSAAAPAAPAAYPTGRGGDSAVRQLQASPGLGAGPTRSGVGTGPPSPIALPPLRASNAAAAHTIGGSKHTMN
DHLHVGSHAHGQIQVQQLFEDNSNKRTVLTTQPNGLTVGKTGLPVPERQLDSIHRRQGSSTSLKSMEGMGKVK
ATPMTPEQAMKQYMQKLTAFEHHEIFSYPEIYFLGLNAKKRQGMTGGPNNGYDDDQGSYVQVPHDVAYRYEV
KVIKGKGSFGQVVKAYDHKVHQHVALKMVRNEKRFHRQAAEEIRILEHLRKQDKDNTMNVIHMLENFTFRNHICMT
FELLSMNLYELIKKNKFQGFSLPLVRKFAHSILQCLDALHKNRIIHCDLKOPENILLKQQGRSGIKVIDFGSSCYE
HQRVYTYIQSRFYRAPEVILGARYGMPIDMWSLGCILAELLTGYPLLPGEDGDQLACMIELLGMPSQKLLDASK
RAKNFVSSKGYPRYCTVTLSGSVVLNGGRSRRGKLRGPESREWGNALKGCDDPLFLDFLKQCLEWDPAVRMT
PGQALRHPWLRRRLPKPPTGEKTSVKRITESTGAITSISKLPPPSSASKLRTNLAQMIDANGNIQQRTVLPKLV
S

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FIGURE 637A

CTCGCAGCGCTTCCAGCTCCCCGCGCCCTATGTGAGGGAGACGGGGAGGCCCGCGCGCAGGGGAGGGCGAG
 GCATGTGCACGGGCCGGAGGGTGTGCAGCCGCCAGGAAGAGGGAGCGCGCGAGGAGAGCGGGGGGC
 TCGCGGCCGGGGCCCGGCCAGGGGATGCAGTGGACTGTGTCTGGCTGTAGCAGACGCAGGCCGGCGAC
 GAGGCGCCGGGACCCGCGAGGGGCGGCCGNNNNNNNNNNNNNNNNNCAGAAGTAGCAGCAGGACCGGC
 GGCAGCGACGGCAGCCCTGAAATGCATTTCCTCCAGCGCC~~A~~TGTTAACCAAGGAAACCTCGGCCCGCTC
 CCGCCGCCTACCCGACCGGCCAGGGACTGGGACAGCGCCGTTCTCAGCTCAGGCTCCCCGGGCTCGGTGCAG
 GGGCCACCCGGAGCGGAGTGGGACTGCCCTCCCCCATGCCCTGCCGCCCTCCGGGCCAGCACAGCTG
 CGCGCAGCCCACACGATTGGCGCAGTAAGCACACAATGAATGATCACCTGCATGTCGGCAGCCACGCTCACG
 GACAGATCCAGGTTAACAGTTGTTGAGGATAACAGTAACAAGCGGACAGTGCTCACGACACAACCAAATGGG
 TTACAACAGTGGGAAAACGGGCTGCCAGTGGTGCAGAGCGGAGCTGGACAGCATTATAGACGGCAGGGGA
 GCTCCACCTCTAAAGTCCATGGAAGGCATGGGAAGGTGAAAGCCACCCCATGACACCTGAACAAAGCAATGA
 AGCAATACATGAAAAACTCACAGCCTCGAACACCATGAGATTTCAGTACCCGAAATATATTTCTGGGTC
 TAAATGCTAACAGCGCCAGGGCATGACAGGTGGGCCAACATGGTGGCTATGATGATGACCAGGGATCATATG
 TGCAGGTGCCAACGATCACGTGGCTTACAGGTATGAGGTCTCAAGGTATTGGGAAGGGAGCTTGGGAGG
 TGGTCAAGGCCTACGATCACAAAGTCCACCAGCACGTGGCCCTAAAGATGGTGCAGGAAATGAGAACGCTTCCACC
 GGCAAGCAGCGGAGGAGATCGAACCTGGAACACCTGCGGAAGCAGGACAAGGATAACACAATGAATGTCATCC
 ATATGCTGGAGAATTTCACCTCCGCAACCACATGTCATGACGTTGAGCTGCTGAGCATGAACCTCTATGAGC
 TCATCAAGAAGAATAAAATTCCAGGGCTCAGTCTGCCTTGGTTCGCAAGTTGCCACTCGATTCTGCAGTGCT
 TGGATGCTTGCACAAAAACAGAATAATTCACTGTGACCTTAAGCCCGAGAACATTGTTAAAGCAGCAGGGTA
 GAAGCGGTATTAAAGTAATTGATTGCTTACAGGTGTTACGAGCATAGCGTGTCTACACGTACATCAGTCGC
 GTTTTACCGGGCTCCAGAAGTGAATCCTGGTACAGGTTGGCATGCCATTGATATGTGGAGCCTGGCTGCA
 TTTAGCAGAGCTCTGACGGTTACCCCTCTGGCTGGGAAGATGAAGGGGACAGCTGGCTGTATGATTG
 AACTGTTGGGATGCCCTCACAGAAACTGCTGGATGCAATCCAACGAGCCAAAATTGAGCTGAGCTCAAGGGT
 ATCCCCGTTACTGCACTGTCAGACTCTCAGATGGCTCTGGTCTAAACGGAGGCCGTTCCGGAGGGGGA
 AACTGAGGGGCCACGGAGAGCAGAGGTGGGTAACGCGCTGAAGGGTGTGATGATCCCCTTTCTTGACT
 TCTTAAACAGTGGTACGGATCTGCAGTGCATGACCCAGGCCAGGTTGGCACCCTGGCTGA
 GGAGGCAGGTTGCCAAAGCCTCCACGGGAGAAAACGTCAGTGAAGAGATAACTGAGAGCACCGGTGCTATCA
 CATCTATATCCAAGTTACCTCCACCTCTAGCTCAGCTTCAAACGAGGACTAATTGGCGCAGATGACAGATG
 CCAATGGGAATATTCACTGAGGACAGTGGCCAAACTTGTAGCTGAGCTCAGTCCCTGATGCTGGTAAC
 CTGAAAGATACTGACATTGCTGAGCCTACTGGGTGAAAAGGAGTAGCTCAGACCTGTTTATTGCTCAATAA
 CTCTACTCATTGTATCTTCTAGCACTTAATTAAATGTAAGAAAGTTGTTCTTTGTTTATAAAACAT
 GAGGACAATGCTTAAAGTTTATACTTCAGAAACTTTGTTCTAAAGTACAATGAGCCTACTGTATT
 AGTGTGGCAGAATAAAACATCAGTGGCAGGCCACTGATTACTCATGACGCCAGTACAGATTGGTGT
 AAAGACATTCACTATGTTTATGGTCTGTTATGTTCTCCAGGGTACAGCCCTTAAGGCCCTCTT
 CCTCCATGCTCCAGGTCCATGCACAGGTGTAGCATGTCCTGCCGTTTCTATAATTAAATCTGGGTGTTGGG
 GGTAGTGGGAGGAGAACGGTCAGAATCAAAGTGACATTCTAAGAAAAGTGTACCTTAGAGATTTCCTCTAGTG
 CTCAAACAAATACAAAATAAGATCCCCAAGGTTAAACTGCCAGTTAGCTGACATTCTAAAGCCGGCAA
 AGCAGCTTTAGGGATAATGGGAATGGAAACGTTGTTGCTCTCCAAATTCTAGTATGATCGGTGAGCTGT
 TTGTAAGAAGCCTCATATTACAGAGTTGCTTGCACCTAAATTAGAATTGATTCCATGAACTGTTCTCC
 CTTTCTCTGCTTTCTCTCTGTTCTCTGTTAATACACACAGCTGCTGCTGCTGATTAGTTGCTCT
 CCTCAGCTGTGTATCCAGACTGTTAACAGAAAAGAGACATTCTAGCTGTGATTATGACCATTGTTCTAT
 TCCAATTAAAAAGAACAGCAGCCTAGCTACTTAAGGTGGGATTCCATAGTCCAAAGAAGATTAGCAGAT
 TAGAGTGTGAGTTCACACTTTCAGGTGCCACTGTAAGGTTCTCTCAGCTGGGAAACTATCAACTCTTCTTAAA
 AAGAAAGAGGGTGAAAATCCTCTGGACGAACAGAAGTCACATTGGCTGTTAGTAAGGCAATGTTAACACAC
 GTTAGAGGAGGAAAAGTTCAACCTCAAGTTAAATGGTTGACTTATTCTCGTATCATTAGAAGAACCCAGAG
 ATAGCATTCCCTCTATTATTCTTCTTGTGATTGACTGATTGTTGTTGAGACACITTATCTGG
 CAAAGTAACGTGAGAGTTGGTAAAGAATATTCTCTGTAATAATTATTACAGTGAACAAAGATTTCAGT
 ATTATCACTAATGTATGAGCAATGATCTATCAATTCAAGGCACGTGAAAAAAATTTTAGTATGTGCAA

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FIGURE 637B

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FIGURE 637C

TATCAGATTTCAAAAGCGTTTAAAATTGATCAATGTGCAATTCTGTTGAGTCTACAGTCCTATCCCT
TTGGAAATGAACAGCTACACAAATAAATATTCTTGAACCTTCGAAGTTGTCTCAAACTAGCTCTAGAAAATGTC
CCTAGTTGACATTAGTGTGGCTGTTAGAAGGGAAATTGATTGACTGCTCATGTTGAAAAGAGCATTAA
GAGGGATTGAGGAAGGTATATGTGGCTTCTTTCTTAAGTTGAATTACACTGATTCCCTTGAGGTTATT
AGGCAGATAAACCTTGTCTAGTAATACACTGCACTGTCCAAATGAAAATGACTGCCAGTGTGTCACAT
ACATAAGAAAATTACATCTTACTGCGAAGTCTTGGTTGTTCTTATTTGGTTGACTTGACTTACTATTT
GCTATGGTCATATCCTTAATATCTGCGGTACATTTCATATGTATATATGGGGTGGGAGCATAATTGCCATTCCA
TGTGTCTCAAGGAAGCTTAATGAGGAACAACTATGAGTTAATTAACCTCTGAAGAAAAGCTGACATTAGGA
GTATTAAGTCATCTGCGTTAAGGAGCAGCAAGAATATATTATGATTGATCACATGTTCCAGAAGAGCATTACC
CCTTACATAGAAAGCTCCTGGAGATTTCATGATGTTGGATGAACATCAGTTATCCTTACATCCCTATGAGC
TATAATTATCCTCATTGATACTTGAGGAAACTGAAGTGACTTGCTCCAAAGTGACTACAAAAACATTGCAGTT
GAGGCTTAGGTTGTAATCAGTAATTGGTCTGGACAGTAAGGGAAAATCCATAACATAAAACACAAAAGT
TTAGAAAGGGGGGGAAAGTTGAGCTAGCAATGGGCATTCTATTATTAAAGTTACATATCAGTTCCAGGAATATT
TTTCAAATGGGACAAACTAAAAAGTTGAGGACTAGAGCATCGTAGTGTCTAAGTGCACCTAATAACTTAATGCAT
GTGCACACACCCCTCAGTTAATTGTAAGAGAGTGACTTCTCATGTTATTGTGGAGAGGCTAATTATAAGTAGCT
TCATTCTTATTTCTGTGTTCTAAATTTCATTTGAAAGTATGAAAATACTATTTGACACTTTAC
TGATACTCAGGGATTAAAGTTAAATTACTGACTGTAGCAGCAGGTAATCTTAAATTACTCAGGTTCC
TATCCTTGCCTCCATATTAAAGAAAATAGAACATGCCTGCCAGGGAAATATAAAAATAAAATTTCAAATAC
AATTAAAATACCAATTGAAATAAACCAATTACAAACTAAAATATTGTGCTTCCCTGCTTTATCCC
AATTATCTCCCCTCCTAAGTTGAGGAGTTATATATTAAAGGCTATTCTCATTTGAAAATGAAGTATGC
TATTGCAAAGCAAAAGCCCAGAAAAGCCCCAAATCATTAAAGTAAAGCTTACTGAATTGTTCAATTGTT
GGGAGAAAATGTAACAAATTATAAGCAATTATGTGGACCAGCAGCAAATAATGTATGAGTACATTGGGA

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FIGURE 638

MLTRKP SAAAP AAYPTGRGGDSAVRQLQASPGLGAGATRSGVGTGPPSIALPPLRASNAAAHTIGGSKHTMN
DHLHVGSHAHGQIQVQQLFEDNSNKRTVLTTQPNGLTTVGKTGLPVVPERQLDSIHRRQGSSTSLKSMEGMGVK
ATPMTPEQAMKQYMQLTAFEHHEIFSYPEIYFLGLNAKKRQGMTGGPNNGYDDDQGSYVQVPHDVAYRYEVL
KVIGKGSFGQVVKAYDHKVHQHVALKMVRNEKRFHRQAAEEIRILEHLRKQDKDNTMNVIHMLENFTFRNHICMT
FELLSMNLYELIKKNKFQGFSLPLVRKFAHSILQCLDALHKNRIIHCDLKPE NILLKQQGRSGIKVIDFGSSCYE
HQRVYTYIQSRFYRAPEVILGARYGMPIDMWSLGCILAELLTGYPLLPGEDEGDQLACMIELLGMPSQKLLDASK
RAKNFVSSKGYPYRCTVTTLSDGSVVLNGGRSRRGKLRGPESREWGNALKGCDDPLFLDFLKQCLEWDPAVRMT
PGQALRHPLRRLPKPPTGEKTSVKRITESTGAITSISKLPPPSSASKLRTNLAQM TDANGNIQQR TVLPKLV
S

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FIGURE 639

GGCACGAGGGTAGCTTCAACATAAAGTGGAGGTTCAACACAGGAGACTTAAGCAAGTCCAGTGTGTCTAT
ATTTGGTCTGGCTGATCGGCTGGACTCTGGCCTTCCCCGCTCACGTTAGCAGACAGCTCTGCCCTAGGGCGCT
TAGCCTGCGACGGCAGCCGAGAGGATGTCTAACAAAGCTCTTCTCCCACCCCCATTCAAGTGTCTCAGGTC
TGAATTCAAATGGCCTCATCTCCTGCTGCTGAGCGTCCCGGCTGTACCAATGGAGCCTGAAGAGTTCGGC
GCAGTTCTGGGTCTCCACAGCTGAGGCAGGTTGGTCAGATCATTAGGTTCTGCTCGGATGGCGGCACGCT
GATCCTGGAGCCTGCGGGCCGCTGCTGAGGACGAACGGGTGCGAATGCCGTGCGCGGCTAGCCCCGGAGCA
GCCGGTCACGCTGCGCGTCCCTGCGCGACGAGAAGGGCGCGCTTTCCAGGCCACGCGCGTACCGCGCCGA
CACTCTGGCAGCTGGACCTGGAGCGCGCCCGCTGGCGCAGCTTCGCGGGCTTGAGCCCAGGGCT
GCTCTGGCCTTGGAGCCCAGAAACCTTGGTGCCTGGTGAAGCGCAGTGCAGCCTGGCCCTGGCGTGG
GCTGGAGGTGCTGGATGGCCACGACCCCGACCCCGGGCGGCTGCTGTGCCAGACGCCGACAGCGCTACTTC
CCCCCCCCGGGTGCGCGCGAGCGGTGCGCGTGGCCGGGTGCGAGGCACGCTTCCTGCCGCCAGAACCTGG
GCCCTTCTGGGATTGTGGACATGTTCCAAGTGGAGGTGGCCTGCTGGAGTATCGGGCTAGTCTGCTGGCTGG
GAAGGGTTTGCTGTGATGGCTCTGGCTTATTATAACTATGAAGACCTCCCAAGACCAGGAGACGCTCCATCT
GGAGTACTTGAAGAACGCATGAACACTTGCTCAGTCATCCCGAGGTAAAAGGTCCAGGAGTTGGCGTGG
AATTTCCTAAAGGGGGTGAGCTCTGCCCTTCCATGCCCTTCTGAAGGGCATACGGCTGCTGTCATCAA
CGGCTCTGTGGCCAATGTTGGGGAACCTTACGCTACAAGGGCGAGACCCCTGCCCTGTGGCGTCAACAGAAA
TCGCATCAAGGTGACCAAGATGGCTATGCAGACATTGGATGTCTGAACAGCCCTTGAAGGACCTGACCA
GAAGAGCTTCAATTCTGTGGAAAGGGCAGAGAGCACCTCCTGTTCTGGTAGGTCAAGGATGACCACA
GAGTGAGTTCTATGCTAATGAGGCCTGAAACGCTTGCAGGCCATGGGAGGAGAAAGCCCCAGATCATCTGTTA
CCCAGAGACAGGGCACTATATTGAGCCTCCTACTTCCCCCTGTGTCGGCTTCCCTGCATGCCCTGGGGCAG
TCCTATTATCTGGGGAGGGAGGCCAGGGCTCATGTCATGGCTCAGGTGGATGCTGGAAACA
CTTCCACAAACACTGGGTGCCACGAGGGACAATCCCACAAAGTGTAAATTATTGATCATGTGGCCTC
TCTGTTGCTAATCTCTCCTGGAAACATGCCACATTAGTGTGTATGTGTATTCAATTCTTGTAAAA
ACTAAAGTTTTCCCCTCATTATTAAAGAATTACCAAGAAAAAAAAAAAAAA

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FIGURE 640

MSNKLLSPHPHSVVLRSEFKMASSPAVLRASRLYQWSLKSSAQFLGSPQLROVGOIIRVPARMAATLILEPAGRC
CWDEPVRIAVRGLAPEQPVTLRASLRDEKGALFQAHARYRADTLGELDLERAPALGGSFAGLEPMGLLWALEPEK
PLVRLVKRDVRTPLAVELEVLDGHDPDPGRLLCQTRHERYFLPPGVRREPVRVGRGTLFLPPEPGFPGIVDM
FGTGGGILLEYRASILLAGKGFAVMALAYNYEDLPKTMETLHLEYFEEAMNYLLSHPEVKGPVGGLLGISKGGELC
LSMASFLKGITA AAVVINGSVANVGGTLRYKGETLPPGVNRRNIKVTKDGYADIVDVLNSPLEGPQKSFIPVER
AESTFLFLVGQDDHNWKSEFYANEACKRLQAHGRRKPQIICYPETGHYIEPPYFPLCRASLHALVGSP IIWGGE
RAHVMAQVDAWKQLQTFFHKHLGGHEGTIPSKV

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FIGURE 641

TCCTGGGGCCCAGCGCGGGTGGCTGCCGCGCCCTCGGGCTGCGTGGGAGGGGGCTCCGCCCTGTTGTCA
TGCTCCTGCAGCCTTTCGCTGGACTGCGCACACGCCCGACCGGGGTGCCGCTGTGTCAGGCCGGGT
GCTGGGCACGGTCCCGAGTGCCTATAAGGACTGCCAGGAATAATGAAGGTTCTTTACTGAAGGATGCAA
GGAAGATGACTGTGGCCAGGATCCGTATATCAGGAAATTAGGATTATGGACTTGAAGCCACTTGATCCCTGT
TTTATCGTTGAGTTTGTCTCTCCAGTTCTGAGAAGCTTCTCATCCTGAAGATTACGGGGACTCAT
TTTACCGCCCCAGAGCAGTGGAAAGCAGCAGAGTTATGTTGGAGAAAACAATAAAACTGAAGTCTGGAAAG
GTCTCTGAAAGAAAAATGGAATGCAAGTCAGTGTATGTGGTGGAAATGCTACTGTTCTAGTGAGTAAAAT
TGGCCTGGATAACAGAAGGAGAACCTGTGAAATGCAAGAAAAGCTTGCAGAATATTTGTTCCAGGGAGTCCTC
AGCACTGCCTCTCTATTCCTGTGAAACCTCAAAAGAGAAATCCTGCCAAAGCGCTCAAGGACAAGGGAT
TGCCATGAAAGCATAACTGTGTATCAGACAGTTGCACACCCAGGAATCCAAGGGAACCTGAACAGCTACTATT
CCAGCAGGGGTTCCAGCCAGCATCACATTTTAGTCCCTCTGGCCTCACATACAGTCTCAAGCACATTAGGA
GTTATCTGGTACAATATCGATCAAATAAGTTGCAGCCATGGCCCCACTACGGCTGCGCGCTGGCGCCCA
GGGCCTTCTGTAAGCTGCACTGCAGAGAGCCCCACGCCACAAGCCCTGGCCACTGGCATCAGGAAGGCTCTCCA
GCCCATGGCTGCTGCTGAGTGCCACCTAGCGCTGGCCCATGCAGCCTCCCTGGCTGGCTGGAT
GGAGCCAGGCATGGCAAGGGCTCTGGGAGCTGCTGCCGTAGACTCCTGCCTCAAGCTGAGTGGAAAGCACCT
GAGGACCGGGGATCGGGACCTGACCTGGGCTGCCCTCAGGCCACGTGCACGTGACTGCCCTGTGGAAGCCA
GCTTAAACCCTAGCCCTGTGAGAGCTTCTGTGCCAGCAGGAAGTCAAATAACCACACTGACTACCTGT
GCTT

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FIGURE 642

MKVLLLKDAKEDDCGQDPYIRELGLYGLEATLIPVLSFEFLSLPSFSEKLSPEDYGGLIFTSPRAVEAAELCLE
QNNKTEVWERSLKEKWNAKSYYVGNATASLVSIGLDTEGETCGNAEKLAEYICSRESSALPLLFPGNLKREI
LPKALKDKGIAMESITVYQTVAHPGIQGNLNSYYSQQGPASITFFSPSGLTYSIKHIQELSGDNIDQIKFAAIG
PTTARALAAQGLPVSCAESPTPQALATGIRKALQPHGCC

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FIGURE 643

CCCAGAAATTCTACCAAGCTCCCTCAGCACCAATGTACCGAGCACTTCGGCTCCTCGCGCCTCGCGTCCCCCTCG
TGCAGGGCTCCAGCCGAGCCTAGCTCGCTCCGGCTGGGTGGCGCGGCCGTGCCCTCGTTGGCCTCCGA
ACGCAGGCTCGAATGGCAAGCAAATTCCCTCGGATAGAATATGATACTACCTTGGTGAACTAAAGGTGCCAAATG
ATAAGTATTATGGCGCCAGACCGTGAGATCTACGATGAACCTTAAGATTGGAGGTGTGACAGAACGCATGCCAA
CCCCAGTTATTAAAGCTTGGCATCTGAAGCGAGCGGCCGTGAAGTAAACCAGGATTATGGCTTGATCCAA
AGATTGCTAATGCAATAATGAAGGCAGCAGATGAGGTAGCTGAAGGTAAATTAAATGATCATTTCTCGTGG
TATGGCAGACTGGATCAGGAACATCAGACAAATATGAATGTAATGAAGTCATTAGCAATAGAGCAATTGAAATGT
TAGGAGGTGAACCTGGCAGCAAGATACTGTGATCCCAACGATCATGTTAATAAAAGCCAGAGCTCAATGATA
CTTTTCCACAGCAATGCACATTGCTGTCATAGAAGTTCATGAAGTACTGTTACCAAGACTACAGAAGTAC
ATGATGCTCTTGATGCAAATCCAAAGAGTTGACAGATCATCAAGATTGGACGTAECTCAGGATGCTG
TTCCACTTACTCTGGGAGGAATTAGTGGTTATGTTCAACAAGTAAATATGCAATGACAAGAATAAAAGCTG
CCATGCCAAGAATCTATGAGCTCGCAGCTGGAGGCAGTGTTGGTACAGGTTAAATACTAGAATTGGCTTG
CAGAAAAGGTTGCTGCAAAGTGGCTGCACTTACAGGCTTGTCACTGCTCCGAATAAATTGAAAGCTC
TGGCTGCTCATGACGCTCTGGTTGAGCTCAGTGGAGCCATGAACACTACTGCTGCACTGATGAAGATAGCAA
ATGATATCGATTTGGTTCTGGTCCTCGGTCAAGGCTGGGAGAATTGATCTGCTGAAATGAACCAGGAA
GCAGTATCATGCCAGGCAAGGTGAACCTACTCAGTGTGAAGCAATGACCATGGTTGCAGCCAAGTCATGGGAA
ACCATGTTGCTGTCACTGTGGAGGCAGCAATGGACATTTGAGTTGAATGTTCAAGCCAATGATGATTAAAA
ATGTTGTTACACTCAGCCAGGTGCTGGGGATGCTTCAGTTCTTACAGAAAATGCGTGGTGGGAATCCAGG
CCAATACAGAAAGGATCAACAAGCTGATGAATGAGTCTCTAATGTTGGTACAGCTCTCAATCCTCATATAGGGT
ATGACAAGGCAGCAAAGATTGCTAAGACAGCACACAAAAATGGATCAACCTTAAAGGAAACTGCTATCGAACATTG
GCTATCTCACAGCAGAGCAGTTGACGAATGGTAAACCTAAGGACATGCTGGTCCAAAGTGATTACATAAA
TTTATAATGAAAATAAACATGTATAAAATTAAAAACAGACTCCCATTCTTAAACGGATAAGTTGAAAG
GAAACTGCTATTGAACTTAAGCATCTCTAGCAGAGCAATTGATCAGTATATAAAACCTAGGATGTGCTAGGTC
TAAGATGGATTAAACAAGTATAAAATAACATTATAAAATAAAAGGAAAACAGACTAAAA

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FIGURE 644

MYRALRLLARSRPIVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGAQTVRS
TMNFKIGGVTERMPTPVIKAFGILKRAAAEVNQDYGLDPKIANAIMKADEVAEGLNDHFPLVVWQTGSGTQTN
MNVNEVISNRAIEMLGGELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEF
AQIIKIGRTHTQDAVPLTLGQEFSGYVQQVKYAMTRIKAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKVAAL
TGLPFVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGEYLILPENEPEGSSIMPGKVNPT
QCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLHSARLLGDASVSFTENCVVGIQANTERINKLMN
ESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIELGYLTAEQFDEWVKPKDMLGPK

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FIGURE 645A

CGTCCACCGTGGAGTCTCTCCTGCTTGGGTCACTGAGCCCCACACATTGTTGAGTGTCTGATTGTCCTTG
 CCCTTACAGGACAGGAAAGCAGAACATCTGTTCTTGTAGGGACCTTCTTTTAGGTGAAAGGGACAGAACAT
 ATGATTCTGGCCTCCTGATGGTGAATAACAGGAACACTTCAGATAAATTACAATAGAGAGGAGTCAGCTTATT
 AAACAAACTGAGGTTAACGCCAGAGATTGCAGTTAACAGTAAAAAAATTAAAGCAAGTACCTGGATGGATGCAA
 GCAGTGCCAGGAGACCCAACCTACGTGACAGAGATGATCATTGTCACTCATTCAATTATGTTGAGCACCGAGCC
 ATGTGCCAGGTCCAGAACTAGAAGAAACTGGGTGAGGTGAGATCATAGGAACAGTCCCTGCCAGCTGAACA
 TCAGGAAGCCAGACTGGGAGCACATGCCGTGGCTGACTAGGACTCCAGCAGGGACCTGGGTTCCATCAGATCAG
 TGTAAAGCGATGGTTCCAAATGAGACCTCTCCAGAGATGGTCATTCCACCCCGCAATGCCACCAGAAACAT
 TGTGCTGACCAGAGGGCTTCACTGCCCAAACCCAAAATCACACTCCAGGATGAGAAACCTAAAGTCTATCTT
 GATGAGGCTTCATAGCTGGAAACCACCCCTCATGGATCCACAGGCTGATTGATGAAAGGAGACTCCAGGAAGT
 CGAGCCATTCCAGGCAGACATGTAGAAAAGCCCAGCTGGGTCCGCCCTATGCAATAAAACACCTGTGCA
 CATAAGAGAGGTGACAGGCAGGGCATCCCTGGGACCTGGGCTGTGGCACGTGAAGAAACACCAAGAGAGCAC
 GAAGTCCAATGCCATGACCAGATATTGCGTGCAGGCATGCTCTGGTCCAGCAAAAGACACACAAATCCG
 TGTCTTGGGACCCACAGTCTAGTGCACCTAGGCTGGCCGGTGCACGCTCTTCAAGGGCTCGAAAGCCT
 CTGCATGGATGCAACTTGGGGAAAAGTAACCTAACCTCTGCTTCTCATCCTCCCCCTTCTGTGTATAT
 GTCTGTCTTTCTCTGTGTGCCCCCTCCACTCCCACCCATCCCATTCTTTTATTATATTATTTGGT
 GGTGTGTGGCTCGTTCTGTTGGTCCCTCGTGTGGCCCTCCCTGCTGCAGAACACTGCTCAGCTGGCCTCC
 TCCGAAGCCTCGAAACCTGCCAGTCAGTGAGCGAGTGAGCTCCCCACCTCTGTCAGCTCGGCTCCACCATG
 GGTGCCTGGGTGTCACAGAGAAGGTGACCGCCGGTGGCAGCCACAGGGCCCACTCTCCCTGGTCCCCCTG
 CCTGCTGCTCAGACAGCCCTCACAGCCGGCAACCTGAAAGCTCAGAACATCACCAAGAGTGGGCTCCTCTT
 GGGGACAGAGGGTGGGACAAGGCTGAGAGCATTCTAGAATGAGTGCCTGGCTGCTGGACAATGACCACATGGT
 TGTCTCAAGGGAGAGGAAGGGTATGGGAATTGGAGGTGTGAAGGTTCTCCAGACCAGGTGTTGCGTGCC
 TGTCCATCCTCCCTCCCTCCGAGCCACCCACCAGACCGTTGGATGAGCCATGTCAGTGTCAAGGGCTG
 TGTCTTTCCGCTTTAGTTGCACCCCCACCCCCCTGCCCTGATTGAGAATGTGCTCTGAGCAATGCGAC
 GATTTGGAAACCTAGAATGAACAGATCATTGAAGATGCTTGGATTAAATTGCAATGAAATGAGC
 AAATCACTATCACCATTAAATGAGGCTCATTAGTTACATTATCAAAACATTGACAAGGCCACAAATTGAGGG
 CACTGATCAATTCCAAACTCTAAACGTAGGTCAAACATAGATGCTATTGCTGTCAAACATGTGCATT
 TTTGCACCCCGGCTTTCTCTGACACAGATCATCCGTGAGCAGCAGGCCAATGTTGTTTATT
 AAATATTCAAGTTCCCTCCCTGAATGTCATGCCATTGTATCTCCGCACTCATCTGTATATAATT
 TTTCTTCCCCCCCCCTTTTTGTTGTTCCAGTTGCTCAACGGTTTCTCACTATAGTTATCAAGTGAG
 TCCCACTGGGGCCCACGGGTGCAGGCCTTCCCTCATTGCCCTGCCCTCCGCTGCCCTGGTCACC
 TCTGTCCACCTCCAGACTACGCTCATTACACCATTGGGCCGGC**ATG**TCCCGTCATCTCAGATCCCTAGC
 TGGAGGACTGGCTAACGCTGGCCATGACCAGCCTGAGTGAACACCCCTGCAGGCCAAAGAGAAGCGA
 GAACCGGACCCAACGGGGAGGACCACTACCGCCAGCGGCCACCTGCAGCAGCTGAGGAGGCTCAGAGACCA
 CGGAGCATGACTGTATCGGCTGCCACCAGGCCTGGTGAAGGAGATGGAGGCTGTGAGGAGCTGGCCTGGCCCTG
 TCTGGGGCCTGCAGCTGGACACCCAGAGGAGCAGCCGGACTCGCTTCAGTGCTCCAGCGCTACAGCACCCAG
 ACAACCAACCCCTGCTGCTCTGAGGACACCATCCCTCCAAGTTCAAGATTATGATTATTCTCTGTAAGTGGT
 GACCAAGGAGGAGCATGAGCAGGAGTTGACAAAGTCTCCACCATCCAAGAAACAGCAGCATGCCAGTCCTAC
 CGACGGATGTTCAAAGCCAAGCGTCCAGCCTCAACTGCTGCCCTCCACCAACCTGGACCTGCTATGGTCACT
 CCAGGGGTTGCAACTATCCGACGGACCCCTCCACCAAGCCTCTGTCGCCGGGAAACCATTGGAGCTGGTCCC
 ATCCCCATCAAGACACCCGTGATCCCTGTCAAGACCCCAACCGTCCAGACCTCCAGGGGTGTTGCCAGCCCT
 CCAGATGGGCCAGAAGAGCAGGGGGAGCACAGCCCTGAGTCGCCATCTGTTGAGGGCCCCAAGGTGTCACC
 AGCATGCCCTCTCAATGTGGAGCGGCCAAGCTCCGTTAACCCCTCCACTTCCAGGCCGAAGCCAGTATCCCT
 GAGGAGCACAGACAGGAATTCCAGAAAGTGAAGCTGAAGGACAGGAACGGAAACCCCAAGTGCCACTGTCCTC
 CCAGGCCAGATTCCAGAGAGTGACCCCTGCAGACCTGAGCCCAAGGGATACTCCACAAGGAGAAGACATGCTGAAC
 GCCATCCGAAGGGCGTGAAGACTGAAGAAGACCAAGACAAACGATCGCTCAGGCCCTCGCTTTCT**TAG**GTTCAC
 AAGAAATGCGCCGGTGGGAATGAACTGTTCATTAATAAAACCTAATTGCTTGTATCCACTCTATAAT
 AAAACAAAAGATTGTAGGCAACTCGGAATATAGCTTTGAAAGTACTCGACACCTTAGATAAGAATTAAA

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FIGURE 645B

ACCAACCTATGTAAGTACATGACATAATCTTGATCITTAATTGTAAATATTGACAATTTCTTCGCACATTTAA
TCTTAGTTCCCTTGATTTCTGAAGGTGCCAATTCCATTAACTTTTACAAGTCTTGTAAAATTAA
AATGCATAAAGGGGTTGGGCAGGGAACACGAAGTAGTTAATTAGAAAAGGATTACTATACTCACTCT
TCTTTTTCCCACAAGCTTGAGATGCATTGAGTAGTCTAGCTAGAAAGCAAATGCAAGTATTAA
TGTACAAACTAAATGGTAAGAGGTAAAATCTCATTTAAATATACTATGTTCTGGATGAAAGAGCAGGAGTAA
CAATTGATGAGCAATATTCAAGGTGAAGTAAATCTGGAAATGGTAGACTGTGTTGGATTGGGGAGGGCCATG
GGAGGGGTACATCGTCAACATAGCCGATCCTGTTACATTAAAGAGTAGCCTCGTAGGTTGAATTCTCTGGTAG
CTTCATGGTAAATGCATCCGAATAAGCCATACTGGATTGCAGTGTGTTCTGAGGGTGTAAAGGACTTGAC
TTCCTTCTCCATGATTCTCTGGACTGCACACAGCACCCACAACCAGCCCCATGCATGCTGCTGCCCTGGC
AGTCGTAGAATCTCCCACTTCAGTTCTCGTTGATTGACTCACCTTATGGAATCCAATACATCCAAAAGGGT
AAGGCAGTTAAAAATGTGAAAACATTAAAATGATAATAGCAGGGATTCTAGATTATAGTAAATGCCTT
TACTTAACTGTGCCAGCAGGCTGGTGCCTAAAAGCCCAAGTATTGAAAAAAACTCGAACAGATTGACAA
GGGTAGCCAGCTGGAGTCTAGCAACTGCCAATGTGTTACCAATCTGGGGCTTGTGTTCTTCTTC
AAATAATGGCAGTTAACTGCCATTACAGTAAACATTGAAGAGAGGGATTGTTATTGCACTGGAAATCTG
ACCACTATACTGCTCTTTGTATTCTGGTAATGTTTTGGAAAAGATTGCTTTCTAAGTGAAGGTTA
AATTGTTATACTGCCATCCCTAAAGCCAACAGAGATTGAGATTAAAGGGATCACATTGAAGACAATAG
TGTTAAAGAAAGCAAGCAAGCCCTTAGCAGTCAGGTATAACAGGGCACATTCTGACCGAACCTCTCAAGGC
AGAGGAGGAGTTGGTGGGTTTCATACACCCCTGCAGATTCTGTTGGCTTAACCTCAATTACCTAATCTTATG
CTTAAACACATAACTGCATTGGATGTGAGAGTAACGTACCGTATGGTCATTGTTCTATATATTAAACATTGAACAC
TGCTGCGATTGCTCAAGGACATTATGTTACGGCTTAAAGCAAAGGCATGATTAGAAACTATTAAAGCTT
TTTCTTGAAAAACAAGCTCTTACAGAATATAACACAGTAGTGCCTGTTAGCCCACCAATTGAA
TGACTAAAAGTAGCTGATGCATTGTCATATGATGCTTGAGATGGTTTGCAAAAGCAGAAATCGCTGCAAGGT
AATCACAATAGATAAAAGTGTATTAAACCTTGAAATAATGGATGTAACGTACCTGGTACAGCTTCA
CTGTTAGTTAAACGTTAGTATAATCTGAATAATAAAATGTTGCCAAATTCAATGTAGAAAGAATGTGAC
AACACACCTGGTAGTTCTGCTGTGTTTGCAATTGIAAAAGCAGTGTACAGCTAAAAGAAAGAAATCG
TTCTAACAGTAAATTATTGTGCTTAGTTGCTAGTTGACTGAGAGTTGACCTCTCCCTGTCAGTTTGT
TCTAAACTGTATAAAACAATTGTGTAATGTGCTCCCTCACATTGTAACAATTGCTCAGCCTACGTTAT
AAATAAGAACCACTAGATT

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FIGURE 646

MFPSSQIIPSWKDWAKPGPYDQPLVNTLQRREKREPDPNGGGPTTASGPPAAEAEQRPRSMTVSAATRPGEEME
ACEELALALSRLQLQDTQRSSRDSLQCSSGYSTQTTPCCSEDIIPSQVSDYDYFSVSGDQEADQQEFDKSSTIP
RNSDISQSYYRRMFQAKRPASTAGLPTTLGPAMVTPGVATIRRTPKPSVRRGTIGAGPIPIKTPVIPVKTPTV
DLPGVLPAPPDGPEERGEHSPESPVGEGPQGVTSMPSSMWGQASVNPLPGPKPSIPEEHRQAIPSEAEDQE
REPPSATVSPGQIPESDPADLSPRDTPQGEDMLNAIRRGVKLKTTTNDRSAPRFS

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FIGURE 647

CCGATTCTGGCTTGCAAGGCTGTGGTCGGTGGCATCAGTGCTCTGACCCAGGTCCAGCGAGCCTTTCCC
TGGTGGTGCAGCTGTTGTTGACCGCCGCCGCGCCGCGCTGCGCCGCTGCTCGCGGGTCATGGTGTGCTTCC
GCCTCTCCCGGTTCCGGGCTCAGGGCTCGTTCTGGTCTGCCTAGTCCTGGAGCTGTGCGGCTTATGCATTGG
AACTTAATTGACAGATTAGAAAATGCCACTTGCTTATGCAAATGGCAGATGAATTTCACAGTACGCTATG
AAACTACAAATAAAACTATAAAACTGTAACCATTCAAGACCATGGCACTGTGACATATAATGGAAGCATTGTG
GGGATGATCAGAATGGTCCAAAATAGCAGTCAGTCAGCTGGACCTGGCTTCTGGATTGCGAATTTACCAAGG
CAGCATCTACTTATTCAATTGACAGCGTCTCATTTCTACAACACTGGTGATAAACACAACATTCTGATGCTG
AAGATAAAGGAATTCTACTGTTGATGAACTTTGGCCATCAGAATTCCATTGAATGACCTTTAGATGCAATA
GTTTATCAACTTGGAAAAGAATGATGTTGTCACACTACTGGGATGTTCTGTACAAGCTTTGTCCAAAATG
GCACAGTGAGCACAAATGAGTTCTGTGATAAAGACAAAACCTCAACAGTGGCACCCACCACACACCAACTG
TGCCATCTCCTACTACAACACCTACTCCAAAGAAAAACAGAAGCTGGAACCTATTCAAGTTAATAATGGCAATG
ATACTGTCGCTGGTACCATGGGCTGCAGCTGAACATCACTCAGGATAAGGGCTTCAGTTATTAACATCA
ACCCCAATAACAACACTCCACAGGCAGCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCAGCACCATT
AGTATCTAGACTTTGCTTTGCTGTGAAAAATGAAAACCGATTATCTGAAGGAAGTGAACATCAGCATGTATT
TGGTTAATGGCTCCGTTTCAGCATTGCAAATAACAATCTCAGCTACTGGGATGCCCCCTGGAAAGTCTTATA
TGTGCAACAAAGAGCAGACTGTTCAGTGTCTGGAGCATTTCAGATAAACCTTGATCTAAGGGTTAGCCTT
TCAATGTGACACAAGGAAAGTATTCTACAGCTAAGACTGCAGTGCAGATGACGACAACCTCCTGTGCCATAG
CGGTGGGAGCTGCCCTGGCAGGAGTACTTATTCTAGTGTCTGGCTTATTATTGGTCTCAAGCACCACATG
CTGGATATGAGCAATTTAGAATCTGCAACCTGATTGATTATAAAAATACATGCAAATAACAAGATTTCTTA
CCTCTCAGTTGAAACACTTGCTTCTAAAATTGATATGTTGAAACTTTAATTCTTATCAATCCCAGCAT
TTTGAGATCAGCTTTATTAAATAAAACCTGTTCTTTAATCAGCTAAAATCAAAGTGTATCTTAAAGAAGCCCTGGCAAATT
CTGGAGACAAACTGTTCAAAAGAACATCAACGTGCAATGTTAAGGTCTATCTTAAAGAAGCCCTGGCAAATT
TTGATCTAACCTTGAAGTATGCCTTGAACCTATTAAACATGCCATTATAAGAATAAAATGTAGTTGTCTT
AATGGAATTAAATAATGTCAATTCACTACTGGTGTCTGTTCAATGTATAAGGACTATAGTGATTAAACTCA
TCAATGTGCCCTTGCATAAAAGTTGATTAAATAATTGATGTGGTATAATGCCCATCAGATATGCT

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FIGURE 648

MVCFRLFPVPGSGLVLVCLVLGAVRSYALELNLTDSENATCLYAKWQMNFTVRYETTNKTYKTVTISDHGTVTYN
GSICGDDQNGPKIAVQFGPGFSWIANFTKAASTYSIDSVSFSYNTGDNTTFPDAEDKGILTVDELLAIRIPLNDL
FRCNSLSTLEKNDVVQHYDVLVQAFVQNGTVSTNEFLCDKDKTSTVAPTIHTTVPSPTTPKEKPEAGTYSV
NNGNDTCLLATMGLQLNITQDKVASVININPNTTHSTGSCRSHALLRLLNSSTIKYLDVFVFAVKNENRFYLKEVN
ISMYLVNGSVFSIANNNLSYWDAPLGSSYMCNKEQTVSGAFQINTFDLRVQPFNVTQGKYSTAQECSDLDDDTI
LIPIIVGAGLSGLIIVIVIAVIGRRKSYAGYQTL

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FIGURE 649A

CCGCCGTCCCTGCGTCCTCGGTCTCTGCTCCGGGACCCGGGCTCCGCCGCAGCCAGCCAGCATGTCGGGGATC
 AAGAACAAAAGACGGAGAACCAAGCAGAAATCCACCAATGTAGTCTATCAGGCCACCAGTGAGCAGGAATAAG
 AGAGGGCAAGTGGTTGAAACAAGGGTGGGTCGGAGGATGTACCGTGTGGCTAACAGGTCTCTGGTGTGGA
 AAAACAACGATAAGTTGCCCTGGAGGAGTACCTGTCTCCCATGCCATCCCTGTTACTCCCTGGATGGGAC
 AATGTCCGTACGCCCTAACAGAAATCTCGGATTCTCTCCGGGGACAGAGAGAAAATATCCGCCGGATTGCT
 GAGGTGGCTAACGCTGTTGCTGATGCTGGTCTGGTCTGCATTACAGCTTATTCTCATTGCAAAGGATCGT
 GAGAATGCCCGAAAATACATGAATCAGCAGGGCTGCCATTCTTGAAATATTTGAGATGCACCTCTAAATATT
 TGTGAAAGCAGAGACGTAAAAGGCCAGAGCTGGGAGATTAAAGGATTACAGGTATTGAT
 TCTGATTATGAGAAACCTGAAACTCCTGAGCGTGTGCTAAAACCAATTGTCACAGTGAGTGACTGTGTCAC
 CAGGTAGTGGAACTCTGCAAGAGCAGAACATTGTACCCCTATACTATAATCAAAGATATCCACGAACCTTTGTG
 CCGGAAAACAAACTGACCACGTCCGAGCTGAGGCTGAAACTCTCCCTCATTATCAATTACTAAGCTGGATCTC
 CAGTGGGCCAGGTTGAGCGAAGGCTGGGCCACTCCCCTCAAAGGTTCATGCCGGAGAAGGAGTACTTACAG
 GTTATGCACTTGCACCCCTGCTAGATGATGGCGTGTCAACATGAGCATCCCCATTGTACTGCCGTCTGCA
 GAGGATAAGACACGGCTGGAAGGGTGCAGCAAGTTGTCCTGGCACATGGTGGACGGAGGGTAGCTATTTACGA
 GACGCTGAATTCTATGAACACAGAAAAGAGGAACGCTGTTCCGTGTTGGGGACAACATGTACAAAACACCCC
 CATATCAAATGGTGAATGGAAAGTGGGGACTGGCTGGTGGAGACCTTCAGGTGCTGGAGAAAATAAGATGG
 AATGATGGGCTGGACCAATACCGTCTGACACCTCTGGAGCTCAAACAGAAATGTAAGAAATGAATGCTGATGCG
 GTGTTGCATTCCAGTTGCGCAATCCTGTCACAATGCCATGCCCTGTTGATGCAGGACACTGCCGCAGGCTC
 CTAGAGAGGGCTACAAGCACCCGGTCTCTACTACACCCCTGGGGGGCTGGACCAAGGATGACGATGTGCC
 CTAGACTGGCGGATGAAGCAGCACGCGCTGTGCTGAGGAAGGGGCTGGATCCAAAGTCACCATGTTGCC
 ATCTTCCGTCTCCATGTTATATGCTGGCCCCACAGAGGTCCAGTGGCACTGCAGGTCCGGATGATTGCC
 GCCAATTCTACATTGAGGGAGGGACCTGCAGGAATGCCCATCCTGAAACCAAGAAGGATCTGTATGAACCC
 ACTCATGGGGCAAGGTCTTGAGCATGCCCTGGCCTCACCTCTGGAAATCATTCCATCCGAGTGGCTGCC
 TACAACAAAGCCAAAAAGCCATGGACTCTATGATCTAGCAAGGCACAATGAGTTGACTCATCTCAGGAAC
 CGAATGAGGAAGCTGCCGGAGGGAGAATCCCCAGATGGCTCATGGCCCCAAAGCATGGAAGGTCTG
 ACAGATTATTACAGGTCCCTGGAGAAGAACTAAGCCCTTGGCTCCAGAGTTCTTCTGAAGTGCTTTGATTA
 CCTTTCTATTTATGATTAGATGCTTGTATTAATTGCTCCTCAATGATGCAATTAACTTTATAATGAA
 GTAAAAGTTGCTATAATTAAAAAAATATATATACACACACACATACACAAAGTCAAACGAA
 GACCAAATCTAGCAGGTAAGCAATATTCTATACATTCTACATAAAAATTAGCTCTATGTATTCTACTGC
 ACCTGAGCAGGCAGGTCCCAGATTCTAACGGCTTGTGACCATGTTGCTAGTTACTTGCTGAAAGACTGAGAATA
 TATTTCCAGCATGTCTTGACAACCTGACTCTTCAATGTCATTATCAGTTGAAATATATCAGATTGTGTC
 CTCTTCTGTACAATTGACAACAAAAATTTTTCTCACTCTAAAGAGGTGGCTCACATCAAGATTCTTC
 CTGATATTTCACCTCATGCTGTACAAGCTTAATGTAATCATATCTACGTGTTGAAGACCTGACTGGAGAAA
 CAAAATGTCAATAACGTGAATTCTTAGAGATCTGCAAGCCTAGATTTACCTCATGCTGTACAAAGCCT
 TAATGTTGTAATCATCTACGTGTTGAGACCTGACTGGAGAAACAAATGTCAATAACGTGAATTTTATCTT
 AGAGATCTGTGCAAGCCTATTCTGTACAAGGTTATATTGTCATAATAAGAGAAGTCTTAATGCCCTGTGAA
 TAATGTAACTCAGTTACACGGTGAATTAAATAGCATAACAGTGATTGATGAAAGGACGTCAAACAATGTGGCGA
 TGCGTGGAAAGTTATCTTCCGCTTTGCTGTGGCATTGTCAGGAAAGGATGCCCTGATGCGAC
 GCAGCGCCAGCTGTAAATAAAAATAATTCAACACTATCAGACTAGCAAGGCACTAGAAACTGGAAAAGACCA
 AACAAAGAATCCAACCCCTTCATCTACAGGTGAACAAACTGTCAGTGACATGTCAGTTGTTGAAAGCTG
 GAGCACCCTGTAACAAATGTAATTGCAATTAGGAAAGTGCTGGTGGCAGTGAAGAAGCACCAGGCCACTT
 GACTCCCAGTCTGGTGCCTGTACACCAGACAAACACAGGAGCTGGGTCAGATTCCCTCAGCTGCTAACAAA
 GTTCCTCGAACAGAAAGTCTAACAGCTGCCCTCTCGGATACTGAAAGGTCAGTTCTGAACACTGCACTGAT
 TTATTGCAAGTTGAAAAACCCAAAGCTATTCAAAGATTCAAGCTGTTCTGAGACATCTCTGATGGCTTTACT
 TCCTGAGAGGCAATGTTTACTTTATGCATAATTGCAAGGAAATAAGTGAAGAAACAGCACCTTT
 TAATATATAGGTCTCTGGAAGAGACCTAAATTAGAAAGAGAAAATGTCAGAATTTCATATTCTCATTCTT
 AAAAACACTAATCTTAACAAACAAAGTTCTTGAGAATAAGTTACACACAAATGCCACAGCAGTTGTCTTT
 AATAGTATAGTGCCTACTCATGTAATCGGTTACTCACTACTGCCCTTAAAAAAACCAGCATATTATTGAAA

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FIGURE 649B

ACATGAGACAGGATTATAGTGCCTAACCGATATTTTGACTAAAAAATACATTAAACTGCTCTCTGC
TCTAGTACCATGCTTAGTGCAAATGATTATTCTATGTACAACGTGATGCTTGTCTTATTTAATAAATTATCA
GAGTGAAAAAAAAAAAAAAA

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FIGURE 650

MSGIKKQKTENQQKSTNVVYQAHHSRNKRGQVVGTRGGFRGCTVWLTGLSGAGKTTISFALEEYLVSHAIPCYS
LDGDNVRHGLNRNLGFSPGDREENIRRIAEVAKLFADAGLVCITSFISPFAKDRENARKIHESAGLPFFEIFVDA
PLNICESRDVKGLYKKARAGEIKGFTGIDSDEKPETPERVLKTNLSTVSDCVHQVVELLQEQNIVPYTIIKDIH
ELFVPENKLHDHVRAEAETLPSLSITKLDLQWVQVLSEGWATPLKGFMREKEYLQVMHFDTLLDDGVINMSIPIVL
PVSAEDKTRLEGCSKFVLAHGGRRVAILRDAEFYEHRKEERCSRVWGTCTKHPIKMMVMEGDWLVGGDLQVLE
KIRWNDGLDQYRLTPLELKQCKEMNADAVFAFQLRNPVHNMGHALLMQDTRRLLERGYKHPVLLLHPLGGWTKD
DDVPLDWRMKQHAAVLEEGVLDPKSTIVIAIFPSPLYAGPTEVQWHCRSRMIAGANFYIVGRDPAGMPHPETKKD
LYEPTHGGKVLSMAPGLTSVEIIPFRVAAYNKAKKAMDFYDLARHNEFDFISGTRMRKLAREGENPPDGFMAPKA
WKVLTDDYYRSLEKN

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FIGURE 651

GGAGAGAGGACCTATTCACCTAAGGACATTCCCGGAAGGCAATGGGTTCAAACAATATCCTGAAGAGACTCA
TCTCGGGAACTAACGAGGTGGTAATCAGAGAACACAGAGCCCCCGGAAGAATTT**G**CATTCAGGCAAGCC
ACAGGCCAGCCTGGGAAAAGCAGGAAGAAAATGGCAATACGAGGGCCAACCCAAAGTTATTCTGAAGA
GAAACAACTGTCAAGCACCAGATGGGCCTTCAGACCCCAGCATCTCCGCGAGCAGTGAGCAAAGCGGGGCACAGC
AGCCTCCGGTTACAGGTTGAAAGGATTGGACAAAAGGAAAATAAAAAGGGAAGACAGAGTATTGGITC
GGTGGAAAGGCTATGACAGCGAGGACGACACTTGGGAGCCCGGAACAGCACCTCGTAACTGTGAGGAATACATCC
ACGACTTCAACAGACGCCACACGGAGAACAGCAGAACAGGAGAGCACATTGACCAGAACAAACAGGACCTCTCCAACA
ATGCTAGGAAACAAATCTCAGATCCACCAACAGCAACTTTCTAAGAACCTCTCTAAGGCACTCGTGAATTGGGA
AAGAACACGAATCCAAAACAGCCAGCTGTTGCTGCCAGCCAGAACAGTTCAGGAAGAACACAGCTCATCTCT
CCAGCCGGAAGAACATGGACCTAGCGAAGTCAGGTATCAAGATCCTCGTGCCTAAAGCCCGTTAAGAGCAGGA
CCGCACTGGACGGCTTCAGAGCGAGAGCCCTGAGAAAATGGACCCCGTCGAGCAGGGTCAGGAGGACACAGTGG
CACCCGAAGTGGCAGCGAAAAGCCGGTGGAGCTTATTGGGCCCCGGTGCAGAGGGCAGGATGGGAGCA
GGCCCAGGATACACCCACTAGTGCCTCAGGTGCCGGCCCTGTGACTGCAGCCATGCCACAGGCTTAGCTGTTA
ACGGGAAAGGTACATCTCGTTATGGATGCATTAACAGCAATGGACAACACATACAGACATCTGTTACAG
GAGTGAATGCCAGAAAAGGAAATTATTGACGACAGAACAGAGACCAGCCTTGTACAAGCGATTGCGTTCTAGCG
TGAGGCAAACAGAAAGTGCCTACAGATAACAGAGATATTGTGGTCAGGAAGCAGGATGGCTTACCCACATCTGTT
TATCCACAAAGTCTCAGAGAATAACTACTAAATCCAGAGGAATGAGAGAACAGTCCAGAGTGCTCTGAGCACGG
CCGCTGCCATGACAGCAAGCTGGTACTGCTCAGGCCGTTGGCAGCGCTCTGTGACTGACTTATTT
ATTTTATACGACGTCTGACAGATGACAGGAAAAGAGAACACTAAATGGCAGAACGCTATCAGAAACTTCGTGA
ATACTTCATTCAATTAAAGAACCCATTATTGTAGCAGTCATGGCCAGCATTGGCTAGGAGCATCTATAT
TGCCTCTTGCATGTGGTTGGCTAATGAAAAGGCTTGGTTCAAACACCCATACACCTCGGACAGAGTC
CAGATGGCTGTTCTACCGTTATGTTCCAAGATAATGGGAGGAGCATCTGCAAACAGAGATGCTGCTCAGTGGAC
GGAAGCTGACAGCGCAGGAGGCCTGGCAAGGGCTGGTCTCCAGGTGTTGGCCGGACGTTCACTCAGG
AACTGATGGTCGATTAAGGAGCTTGCTCGAATCCAGTTGTGCTGAGGAATCCAAGCCCTCGTGCCT
GCAACATGAAGATGGAGCTGGAGCAGGCCAACGAGAGGGAGTGTGAGGTGCTGAAGAAAATCTGGGCTCGGCC
AGGGGATGGACTCCATGTTAAAGTACTTGCAAGAGAACATGATGAGTTT**G**ATGTCGGGCTGCCACTGGTGA
CACCGGGATCGGGCTGAGCAGGAGAACATCACCGCTCCAGTCCATTCTCACAGCTGAAACAAGC
TCACCCGTAGCTACGCTTGGAACAGCAGGACTGGAACATCCACGCTATTATTATCGAGGAGTTAAAGTACTG
TAACCTTAAAATAACTACAAAGCTTCTTGCVAAACGTCAATTATTATACACGCAGGTGTA
AAAGTATAAAAGGTGAGCACTAGACTGCTCTAGAACAGCTTAATTGTTGTTCTTGCTAGTACTGTATAAAA
ACAGAACATGTTTATTGGTTGGATGACAGAAAAGTCTGAATAATGTTGTTCTCATTCTCCT
AGAACACAGAACATCTAAGGGGTGTTAGCCAGCCTGCCCTGCCAACGTAGAGAACACAGAGTGTGAGGC
GTTGGCTTTCTCAAGAACAGTACAGATACTCAGATTGGAAACTCAAAAGACTTAGCTCTAGGA
TAAATACTCTGATGAAAATCCGCTGAGGAGCATAACCCAAACAGAACATATGCTTAGGATTGCTGAGATA
TCAATTGGTTCCCTCTTTAAAATACGTCAGTTACCCAGTTAACATGAAGAACCAACTGCTCTAGA
AGAAAGCTTGTGTTGCACTGAACTGAATAGCTTAAGTATGACTATCTAAGTTAAAGTTAGTCTT
AGTGGGTTTAAATAGTTTCTGACCCCTCTGAAAAATAACTACATAAGTCTTGTGCTGGGTGAGAAAT
ACTACTTATAGACAGTTGGTTCTGAGATATGATTGATGTTACCCAAAGAACATATGCTTAGGATTGCTGAGATA
GTTTATAAAAGTGTAAAGTTAGGTTCACTAGAAATATTTTATTAAAGTTAAAGTAAATTCTTGGCACACTAT
TAAATGCAAAACTCCTTCAAAAAAA

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FIGURE 652

MAFQASHRPAWGKSRKKNWQYEGPTQKLFLKRNNVSAPDGPSDPSISASSEQSGAQOPPGLOVERIVDKRKNKKG
KTEYLVRWKGYDSEDDTWEPEQHLVNCEEYIHDFNRRHTEKQESTLRTNRTSPNNARKQISRSTNSNFSKTSP
KALVIGKDHESKNSQLFAASQKFRKNTAPSLSRKNMDLAKSGIKILVPKSPVKSRATAVDGFQSESPEKLDPVEQ
GQEDTVAPEAAEKPGVALLGPAGAERARMGSRPRIHPLVPQVPGPVTAAMATGLAVNGKGTSPFMDALTANGTTN
IQTSVTGVITASKRKFIIDRRDQPFDKRLRFVRQTESAYRYRDIVVRKQDGFTHILLSTKSSENNSLNPEVMREV
QSALSTAAADD SKLVLLSAVGSVFCCGLDFIYFIRRLTDDRKRESTKMAEAIRNFVNTFIQFKKPIIVAVNGPAI
GLGASILPLCDVVWANEKAWFQTPYTTFGQSPDGCTSTRVMFPKIMGGASANEMILLSGRKLTAQEACGKGLVSQFW
PGTFTQEVMVRIKELASCNPVVLEESKALVRCNMKMELEQANERECEVLKKIWGSAQGMDSMLKYLQRKIDEF

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FIGURE 653

AGGTGATCAAGCTGTTCTCGCTGAAGCAGCAGAAGAAGGAGGAGGACTGGCGGGCGGCACCAAGGGCAGCAGC
AAGAAGGCCTCGGCCGCGCAGCTCGGGATCCAGAAGGACATAAACGAGCTGAACCTGCCAAGACGTGTGATATC
AGCTTCTCAGATCCAGACGACCTCCTCAACTTCAAGCTGGTCATCTGTCCTGATGAGGGCTCTACAAGAGTGGG
AAGTTTGTTGTTCAAGGTGGGCCAGGGTTACCCGCATGATCCCCCAAGGTGAAGTGTGAGACAATGGTC
TATCACCCCAACATTGACCTCGAGGGCAACGTCTGCCTCAACATCCTCAGAGAGGACTGGAAGCCAGTCCTTACG
ATAAACTCCATAATTATGGCCTGCAGTATCTCTTGGAGCCAACCCCGAGGACCCACTGAACACAAGGAGGCC
GCAGAGGTCTGCAGAACAAACCGGGCGCTGTTGAGCAGAACGTGCAGCGCTCCATGCGGGGTGGCTACATGGC
TCCACCTACTTGTAGCGCTGCCCTGAAATAGGGTTGGCGCATACCCACCCGCCACGCCACAAGCCTGGCAT
CCCCTGCAAATATTATTGGGGGCCATGGTAGGGTTGGGGGGCGGCCGGTGGGAATCCCTGCCCTGGCC
TTGCCTCCCTCCTGCCACGTGCCCTAGTTATTTTTTAACACCAGGCTAACTAAAGGGGAATGTTACTG
C

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FIGURE 654

MIKLFSILQQKKEEESAGGKGSSKKASAAQLRIQKDINELNLPKTCDISFSDPDDLLNFKLVICPDEGFYKSGKFVFSFKVGQGYPHDPPKVKCETMVYHPNIDLEGNVCLNILREDWKPVLTINSIIYGLQYLFLEPNPEDPLNKEAAEVLQNNRRLFEQNVQRSMRGGYIGSTYFERCLK

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FIGURE 655A

GGAGCCCTGGCGCGGGGGCGCGTGTCAAGGTGGTGCAGGAGCTGGTAAGAACATATTCTAAGAACCTAGGCCAC
TCAGGTATCCACCATGGTGCTGGGTCTGAACAGAACAGATGTCAAGATGACAGTGTTCTGGAGATCATGGGGAGTC
TGCCAGTCTGGTAACATCAACCCCTGCCTATAGTAATCCCTCTTACAGTCCCCTGGGACTCAGAGGAGTA
CTTCGCCACTTACTTTAATGAGAACAGATCTCATTCTGAGGAGGAGTACTCTTGTAGCTTGTAAACTCTG
GGCTTCACCGGACCAGGTTCTATGAGCATTGCCTACCTGGATCCAGGAAATATTGAATCCGATTGCACTG
TGGAGCAGTGGCTGGATTAAAGTTGCTCTGGATCCTCTGTTGGCCACCCCTGTGGGGCTGCTGCTCCAGCGGCT
TGCAGCTAGACTGGGAGTGGTACTGGGCTGCATCTGCTGAAGTATGTCACCCTCAGTATCCAAAGGCCCACG
AGTCATCTGTGGCTGATGGGAGTTGGCTATCATGGCTCAGACATGCAAGAACATCATTGGCTCAGCCATTGC
TATCAATCTCTGTCTGAGAACATCCCTGTGGGAGCTAGAACAGCATTGGCTTCATCACCAATTGCAGATACTTTGTATT
TCTCTTCTGGACAAATATGGCTTGCGGAAGCTAGAACAGCATTGGCTTCATCACTATTATGGCCCTCAC
ATTGGATATGAGTATGTTACAGTGAACCCAGCCAGAGCAGGTACTCAAGGGATGTCGTAACATCTGTTC
AGGCTGTCGCACTCACAGATTGAACAGGCTGTGGCATCGTGGAGCTGTCATCATGCCACACAACATGTACCT
GCATTCTGCCTTAGTCAGTCTAGACAGGTAACCGGAACAATAAGCAGGAAGTTCGAGAACCCAATAAGTACTT
TTTCATTGAATCCTGCATTGCACTCTTGTTCATCATCAATGCTTTGTTGTCAGTCTTGCTGAAGC
ATTTTTGGAAAACCAACGAGCAGGTGGTGAAGTCTGTACAAATACCAGCAGTCTCATGCTGGCCCTTTCC
TAAAGATAACTCGACACTGGCTGTGGACATCTACAAAGGGGGTGTGCTGGATGTTACTTGGGCTGCTG
ACTCTACATTGGGAGTGGGATCTGGCTGCAGGACAGAGCTCCACCATGACAGGAACCTATTCTGCCAGTT
TGTCTGAGGGATTCTGAACCTAAAGTGGTACGCTTGGCCAGTGGTCTGACTCGCTATTGCCATCAT
CCCCACTCTGTTGCTGTCTTCCAAGATGTAGAGCATCTAACAGGGATGAATGACTTTCTGAATGTTCTACA
GAGCTACAGCTCCCTTGCTCTACCCATCCTCACATTACGAGCTTGCAGGCTAATGAGTACTTTGC
CAATGGACTAGGCTGGCGATTGCAGGAGGAATCTGGTCTTATCATCTGTTCCATCAATATGTA
CTTGTGTTCTACTTGGGTTGGCAATGTTGATTGCACTGGCATGTCCTCTGGACTGTGGCATA
CTCTAAAGGCCTGTCAGAGAACAGCCACCCGTGGCTACGTTAAATTAACTGGATTAGTCTGCTCTGCAGG
TAGCCATCAGAGCCAGTGTGTTCTATGGTTACTGTGTGAACATAGCCAAAAGTATGTGCCGTTGCACAGACTG
TGTGTTATGACTCAACCGTTGGTGGAAAAGACTTGTTCATGTGTATTGAAAGATGGAATTATTTCTTCA
CTGACCTAACCTAGAACTGGATTAGGGGGATTTGAAAGCTGACATTGCTGCTATCATTCAACACTAA
ATTCTTAAGTAGTTGCCAAGGGCCAGCTCAGTTATCCTCGGAGAGACAAGGATATGCATGATTCTAACAG
GCTATATGTTAAAAAAATGGAAAATGCAATACATTAACTACAGAACATGAGTATGCAAGTT
TATTTATCAAATGTAATGGATTAAAGGCTGAGAAATTTCCTTACCTACCTTTCAGTTATTAAATT
TACCAAATTATCAACTAGAAATAGCTTCATCCATATGAAATATAAAATGAAGAGACACCTAGCTCTACAGGCTTA
GGATTCTTGAACATTATTCACCTTAATTCTCAGTGGAGTTAACAGGAGGTTGAGAAAACAAAGAAGGGAAAA
ACTGACAACAAACACCAGCACCATCGCTAGGTGGTCTACTAATTACCTCTCAGGATTTCCTCAGAT
TGAAAAGCTTATGAGGATTCTTGGGAGTCTTAATAACCTGCTGTTAGTACAGAGCTTCTGATGATATTAC
TCTTGAGCACATGTGGTTGAAAACCTAACCTTCTTCTCAGGAGGGTGGTGAAGAACAGATGGTAGTATT
TATGAACGTGATGTTCTGAAATGTTGAGGGTGGGAGAAAAGACTTAAAGGGAGGAGGCCATCTATTGTT
CCTAAAGCCACCTCTCAGCAGAACATGTCATGTTCTGATGTCACCGCTCTGCTCATGCCAAGATGACTTGCG
AGGCAACTCAGGAGCTGTGGACTAACCGTTGCAAAGCACACTGTCTCTCAGCAGTCTGCAAGTCAGTAG
GTGTTAGTGGTCAAAGTTCACTGTCTCAGCAAAGTGAAGCTGGCTACCTCTACAGCTGTTCTCAGA
GGGAAAATCTGAGGACATGGTGGAGCTGGAGTCAGAGGAATGGGTGTCTCAGCACAAAGCTGCTGCTT
TACTTCAGCCACTCTGACATTTCACATACCGAGCCTGAGATTGTTGATTCTCAAATCAAATCAGTGT
GGAGATAAAATCAAACGTTTATAGTCATTGATTGGTGAAGAACAGTAATGGAAAATGGTGTGAAGGACT
TCTCATTGGAGCTTCCAGAGTCCTGGTGTGATTGGTGTGCTGTCATCTGAGCCCCAAAAGCATT
ATTACTGATACTTGCACACAGTCAAAGCGCAGACTGGATGGATGGTCTTTATAAGGCATTAAAGGTACACTA
CTGTGTTCACTGACCACATTTCTAGCCCTCAAGTAATATAGCACAGAGTTGAATGACAATTCCCT
AACCAATTCCCTTCATCTGCCTCTCCCTAACATCGTAATTCTCAAACGGTCTAAAGGCACACTGTGA
AGATATTGGGAGTGCACATCTTAAGCTCTCACCTGGCTGCAGTAGGAAAGGCCAAACTGACGACAAAAAAAT
TCTTATAAGATGATATGGTAACATGTATCTTGCCCTGGGTCTGGGTGGTCCAGTCAGTCTCAGATTACAA

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FIGURE 655B

GCATTTAGGAGCCTAGGTAAAAGCTGCTAGTATTCTTTAAAAGTTATTTGACTTGCAATGATAGAAAAACT
CCTTCCAATTAAATGGCATTTATAATATTATGTGTGTACTTCACAGTGTAAAATACCCCATACGTTATTGC
ATTTGATCTTCACAGAAAGTCATTTAACCAAGTACTCTGGGTGCAATAAATAATATGTAGAAATTAAAGTCCTC
CAATTCCAGCATATCCAGTGAGTTTGACAGTGTTATGTGGAATGTTAAGGATATACAATTGTACTTTATA
TAAATTGGTTCTTGTCTTCTTAAATGTGACATGAAATAATTGTGCTGCTACATTATACTGAAATTACAGGGG
AAAAGGGAAGAGCTTGGCTCCCTTGAGGTTGCTAGTGGTGTAGGAGTGGTACAACGTGAGCTTTAGTAA
CCATTTAACCGTATGTAAACCTGGTTCTAATTAAAAAAAAATTCTTTCC

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FIGURE 656

MVLGPEQKMSDDSVGDHGESASLGNINPAYSNPSLSQSPGDSEEFATYFNEKISIPEEEYSCFSFRKLWAFTG
PGFLMSIAYLDPGNIESDLQSGAVAGFKLLWILLLATLVGLLQRLAARLGVVTLHLAEVCHRQYPKVPVILW
LMVELAIIGSDMQEVIGSAIAINLLSGVRIPWLGGVLITIADTFVFLFLDKYGLRKLEAFFGFLITIMALTGYE
YVTVKPSQSQVLKGFMVPSCSGC RTPQIEQAVGIVGAVIMPHNMYLHSALVKSRSQVNRRNNKQEVRANKYFFIES
CIALFVFSIINVFVVSVAEAFFGKTNEQVVEVCTNTSSPHAGLFPKDNSTLAVDIYKGGVVLGCYFGPAALYIW
AVGILAAGQSSTMGTYSQFVMEGFLNLKWSRFARVVLTRSIAIIPTLVAVFQDVEHTGMNDFLNVLQSLQL
PFALIPILTFTSLRPVMSDFANGLGWRIAAGGILVLIICSINMYFVVVYVRDLGHVALYVVAAVSVAYLGFVFYL
GWQCLIALGMSFLDCGHTVSISKGLLTEEATRGYVK

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FIGURE 657

GCGAGGGTAGCCATGACGGCCTCCGTGCTGCGAAGTATCTGCCAGCCTGCGCCGACTAGCGGGCTCTGGGA
ACTTGGCAGACGCTTAGAGAGACTCACCAGCGAGCGTCATTGTTCTGGAACTCATTCCATGAGA
TCAGAACCTCTCGAAAAAGAAGAAGGTAGATCTAAAAAGACCAAGAAGCAAAGGAGCGCTTGAAAAGGAAG
ATCCGAAAATGGAAAAGGCTACTCAAGAGCTAATTCTATTGAAGATTTATTACCCCTCTAAAGTTCTGGAT
AAAGCAAGAGAGCGGCCTCAGGTGGAGCTCACCTTGAGGAGACTGAGAGGAGCTCTGCTCTGAAGAAGTGG
TCCTTGTACAAGCAGCAAGAGCATAAGATGGAGAGGGACACCACAGGGCTATGCTAGAACGCCAGCAGGAAGCT
CTGGAGGAACTGCAACTGGAATCCCCGAAGCTCCATGCTGAGGCCATCAAGCGGATCCTAACCTGTTCCCCTT
GAGAAGGAAGGCCACATTACACACCACGATCCCTAACTACCAACCCCTGAAGGCAGGTACAATGACATCACC
AAGGTGTACACACAAGTGGAGTTAAGAGATAGACTTGCAGGCTGCTACCTAACATGCTGCCCTGAGAGTAG
GAATGACCAGGGTTCAAGTCTGCTTCCACAGAACGCTGTTAATAACTGGTTAATCAAAAAAAA
AAAAAAAAAA

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FIGURE 658

MTASVLRISPALRPTSGLLGTWOTQLRETHQRASLLSFWEILIPMRSEPLRKVVDPKKDQEAKERLKRKIRKL
EKATQELIPIEDFITPLKFLDKARERPQVELTFEETERRALLKKWSILYKQQEHKMERDTIRAMLEAQQAEL
QLESPKLHAEAIIKRDPNLFPPFEKEGPHYTPPIPNYQPPEGRYNDITKVYTQVEFKR

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FIGURE 659B

AAATGGACTTCTCTGAAGCTGTGTTAGTGAAATGAGCTCAAGTACATGAATGTTAGTTATCACATACAGCA
AATTCCCTTTTTCTTTCTATGAGCACACTCTGCTGCTCTAAACTTACATGCCTGATGGCACCTTACTC
CAGCAGCCTCCAGGTGCTTCATTTCACTTCCAGTCTAACGCCAGTGGCTCTGCCACTGCCCTCCCATTACCTA
GATGGCACCTCCTTGGTAAACCACGCCAATGTTCTTAGCTGCACCAGGCCGAAGCTGTTCCATGCTTGA
GCTTCCATGGGGAGGGATGCTGAGTGAGCAGTTCTACGCCGTGGATCTAGCAAGCCATGGAGACAGGTAGCATT
TGTAAGATGCTGCACAGGAGCAGCATTATCCCCAAAGATATTACAGGGTAGACACGTTTAAGTAAATCAATCA
AGATAACTTATTCAAAGAGCAGGCCGCTTGTGACTAAAATGAAACAAGACAGTTGAATTGTGACTTGAA
GATTACCAATGATTTGAGGCTTTCTATAATAAAAAAGAGGTTCTAACCATATTGGAAACAAAGAGAGTTTC
ATCTTTTCAGATCAAACCATCTGAAAATCTTGTGTTAATTAAATGTGCCGTATTACCCCTGATGT
TATTATGACTATGTGCCGATTCTGCTGGCTGTTGCTGGCTGTAATAATATATTGATTAAATGCT
GTTGACTGTGCTATTAACGTGCCGTCACTAAAGATCTTGTGTTGGCTTAGTATCATATGTGCT
TTTCTGTATCCTGAGCGCTCTATGATCATGTTAATTAAAGCTTACACATTGTTGTTGCTGGTCT
CATCTTGGTAATATGCTATACCCCACTGCTGCCGACACTGCCCTTAGCTGCAGAGCTGGATTAGCTGTTGAC
CATTTGATGCTGTTGTCTGCTGGCAGGGACTGAATGACCTGATGTCAGATTAGATTCTCCTGGGATTACAC
AGCTATGAATGTATTGCTTCTAAACCTCCAAAGTGAATCTAATCTTAAACTACAAGTTGAAGTATTCTGA
AATTGGGAAACATTATTTAAATGCAATCAGGTAGTGTGCTTTACAGCATAATAATATGTTCAAAA

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FIGURE 660

MMRLRGSGMLRDLLLSPAGVSATLRRAQPLVTLCCRPRGGGRPAAGPAAAARLHPWWGGGGWPAEPLARGLSSS
PSEILQELGKGSTHPQPGVSPPAAPAAPGPKDGPGETDAFGNSEGKELVASGENIKQGLLPSLEDLLFYTIAEG
QEKİPVHKFITALKSTGLRTSDPRLKEMDMLRLTLQTTSDGVMLDKDLFKKCVQSNIVLLTQAFRRKLVIPDFM
SFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSTGDTKVPFCLQSCVKPLKYAIAVNDL
GTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPVNAGAIIVTSLIKQGVNNAEKFDYVMQFLNKMAGNEYVGFSN
ATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDFYFQLCSIEVTCESASVMAATLANGFCPITGERVLSP
EAVRNTLSLMHSCGMYDFSGQFAHVGLPAKSGVAGGILLVVNVNGMMCWSPPLDKGNSVKGIHFCHDLVSLC
NFHNYDNLRHFAKKLDPRREGGDQRVKSVINLLFAAYTGDSALRRFALSAMDMEQRDYDSRTALHVAAEGHVE
VVKFLLEACKVNPFPKDRWNNTPMDEALHFGHHDVFKILQEYQVQYTPQGDSDNGKENQTVHKNLDGLL

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FIGURE 661

CGCAGCAACACATCCGTAGAAGGCAGCGGCCGAGAGCCGAGCGCCGCTGCCGCCGCCCCCACCCC
GCCGCCCGCCCGGAATTGCGCCCCCGCCCCCTCCCGCTCGGCCGGAGACAAAGAGGAGAGAAAGTTGCG
CGGCCGAGCGGGCAGGTGAGGAGGGTGGAGCCGCGGGAGGGGCCCTGGCCCGCTCAGCCCCGCCG
CGCCCCCAGCCCGCCCGAGCAGGCCGGACCCCCCAGCGGCCGGCCCCGCCAGCCCCCGGCCG
CCATGGCGCCGCCGGCGCACCCCTGCGCTGGCGCTCGGCCCTCGCTGCTGGCGACGCTGCTTCGCCGGCG
ACGCCTGCAGCTGCTCCCGGTGCACCCGAACAGGCCTTGCAATGCAGATGTAGTGTAGGGCAAAGCG
TCAGTGAGAAGGAAGTGGACTCTGGAAACGACATTATGGCAACCCCTATCAAGAGGATCCAGTATGAGATCAAGC
AGATAAAGATGTTCAAAGGGCTGAGAAGGATATAGAGTTATCTACACGGCCCCCTCGGCAGTGTGTGGGG
TCTCGCTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGAAAGGCCGAGGGGACGGCAAGATGCACATCA
CCCTCTGTGACTTCATCGTGCCCTGGGACACCCCTGAGCACCACCCAGAAGAAGACCTGAACCACAGTACAGA
TGGGCTGCGAGTGCAAGATCACGCGCTGCCCATGATCCGTGCTACATCTCCTCCCGACGAGTGCTCTGG
TGGACTGGGTACAGAGAACATCAACGGGACCAGGCCAAGTTCTCGCCTGCATCAAGAGAAGTGACGGCT
CCTGTGCGTGGTACCGCGGCCGGCGCCCCCAAGCAGGAGTTCTGACATCGAGGACCCTAAGCAGGCCCTCC
AACGCCCTGTGGCCAAGTGCACAAAAGCCTCCAAGGGTTGACTGGTCCAGCTGACATCCCTTCTGGAA
ACAGCATGAATAAACACTCATCCC

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FIGURE 662

MGAAARTLRLALGLLLATLLRPADACSCSPVHPQQAFCNADVIRAKAVSEKEVDGNDIYGNPIKRIQYEIKQ
IKMFKGPEKDIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDGKMHITLCDFIVPWDLSTTQKSLNHRYQM
GCECKITRCPMIPCYISSPDECLWMDWVTEKNINGHQAKFFACIKRSDGSCAWYRGAAPPQEFLDIEDP

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FIGURE 663

GAATTGGCACGAGCGACGCCAGAGGCCAGGAACATCCGCGGTGGACCAGCCGGGCAGGGCGATGCTG
CGGGTGCGGTGTCTGCGCGGGAGCCGCGGCCAGGGCGTGCACATACATCGGATCTCGGCTTGGACGAACC
TTGACAGGATGGGTGCAGCGAACACTTCAGAGCACCCAGGCAGCTACGGCTTCCCGGAACCTCTGTGCAGCT
GACGACAAAGCCACTGAGCCTCTGCCAAGGACTGCCCTGTCTTACAACGAATGGGACCCCTAGAGGAA
GTGATAGTGGCAGAGCAGAAAACGCCGTGTTCCACCGTCAACATCGAGGTGAAGGCCAACACATATGAAAAG
TACTGGCCATTTACCAAGCAAGGAGGGCATTATTTCCAAAGATCATTGAAAAAGGCTGGTGTGAAATT
GAAGAAATGTGCAATATTTAAAAACGGAAGGAGTGACAGTAAGGAGGCCTGACCCCATTGACTGGTATTGAAG
TATAAAACTCCTGATTTGAGTCTACGGGTTTATACAGTGCATGCCCTGAGACATCCTGATAGTTGGGCAAT
GAGATTATCGAGGCCTCCCATGGCATGGCGTTACGCTTGTGAGTACCGAGCGTACAGGTCAATTATCAAAGAC
TACTTCCACCGTGGGCCAAGTGGACAACAGCTCTAACAGCCACAATGGCTGATGAGCTTTATAACCAGGATTAT
CCCATCCACTCTGTAGAAGACAGACACAAATTGGCTGTCAGGGAAAATTGTGACAACGTGAGTTGAGCCATGC
TTGATGCTGCTGACTTCATCGAGCTGGAAAGAGATATTTGCACAGAGAACGCCAGGTTACAAACTACCTAGGC
ATTGAATGGATGCGTAGGCATCTGCTCCAGACTACAGAGTGCATATCATCTCCTTAAAGATCCAATCCCAGT
CATATTGATGCTACCTCAACATCATTGGACCTGGTATTGTGCTTCCAACCGTACCGACCATGTCACCAGATT
GATCTTCAAGAAAGCAGGATGGACTATCATTACTCCTAACACCAATCATCCCAGACGATCATCCACTCTGG
ATGTCATCCAAATGGCTTCCATGAATGTCTTAATGCTAGATGAAAAACGTGTTATGGGGATGCCAATGAAGTT
CCAATTCAAAGATGTTGAAAAGCTGGGTACTACCATTAAAGTTAACATTGTAATGCCAATTCCCTGGGA
GGAGGCTCATTGCTGGACCTGCGATGTCCGGCGCCGAGGCACCTACAGTCTACTGGACTTGAACAGGCCTG
ATGGAGCTTGTGGCTGGCTCAGATAACACCTAACAGCTAGGGCAAGGTTATTCTCTGCTTAAAAAGTGC
ATGAACTGTAGTGCTTAAACAATCATCTCCTAACAGGGGCGTAAGCCTGGTTGCTTCTATTACTTTCTT
GACATAAAAGAAAATAACTCTGCTAGGTATTACTCTACTCCTAAAGTTATTACTATTGGCTCAAGTATAA
AATTTGGTGAATGTGACCAAGAAAAATTAGTCACCTGAGTAATTGGCCACTAATAATTAAACCACATCACCTC
TGTTTTAATTCTTCCAAAAGGCAGCTGAAATGTTGGCCTAATCTTAATTCTTCTTCTTCTATAGAC
TTGAGAATGTTTCTAAATGAGAGAAAAGACTTAGAATGTACACAGATCCAAATAGAACATTCTCTT
TTTTCTAAAGGAGAGAAAAGACTTAGAACATACACAGATCTAAGTACGAAACCAGGTAATTGTCTTTCTAAT
AAGGAATTGGGTAATTCTAATTGTTAAAAATAACCTAGACTATGCAAAACATCAAAGTGAATT
TCCATGAATGTTTAATATTCTCATCTAACATGTGATATATGCTACTAAAACCTTCTATACATCTTAC
CTCATTCAAGTGAATTATTAACTCTTCTCTTCTTCCAAAATTACAGGAATGTTAGTGTAAATTGGATT
TCGCTATCAGTCCCACCTTAAGTTGATATTCAATATCTGATAGATACTGCATTTGGTCATCTAAGAT
TTGTTACAAATGTGCAAATTATTAGAGCATAGACTTATAAGCATTAAAAAAACTATGGAGGTAAACCTA
AATGCGATGTGAAATAATTAGTGTGATACTGTATGTATTTTATTCTAATAACCTTTGTGTTCCAGATT
GAAAA

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FIGURE 664

MLRVRCRLGGSRGAEAVHYIGSRLGRTL TGWVQRTFQSTQAATASSRNSCAADDKATEPLPKDCPVSSYNEWDPL
EEVIVGRAENACVPPFTIEVKANTYEKYWPFYQKQGGHYFPKDHLKKAVAEIEEMCNILKTEGVTVRRPDPIDWS
LKYKTPDFESTGLYSAMPRDILIVVGNEIEAPMAWRSRFFEYRAYRSIIKDYFHRAKWTAPKPTMADELYNQ
DYPHSVEDRHKLAAQGKFVTTEFEPCFDAADFIRAGRDIFAQRSQVTNYLGIEWMRRHLAPDYRVHISFKDPN
PMHIDATFNIIGPGIVLSNPDRPCHQIDLFFKAGWTIITPPTPIIPDDHPLWMSSKWLSMNVLMLDEKRVMDAN
EVPIQKMFKEKLGITTIKVNI RNANS LGGGFHCWTCDVRRGTLQSYLD

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FIGURE 665C

CGCAATCTCGTCACTAAGTCAGAATGCTGCTGTGATGGTGGCGAGGCAGGGCCACCGAGCTGGGCCA
CTTCCTGGAACTGCCAGTACAAAAAGATATGTCTCATGGCCAGGATAACAACGTGATGGAAGAGATATTGAT
GAATGTAAGGTAATGCCAACCTCTGCACCAATGGTCAGTGCAATACCATGGCTCATCCGATGCTCTGC
AAGGTTGGCTACACCACAGACATCAGTGGAACCTCTGTATAGACCTTGATGAATGCTCCAGTCCCCGAAACCA
TGCAACTACATCTGCAAGAACACTGAGGGGAGTTATCAGTGTTCATGTCCGAGGGGTATGCTCTGCAAGAGGAT
GGAAAGACATGCAAAGACCTTGATGAATGTCAAACAAAGCAGCATAACTGCCAGTCCTCTGTGCAACACCCCTG
GGGGGGTTTACCTGTAATGTCACCTGGTTCACACAGCATACTGCTGTATGACAACAAACGAATGTGGG
TCTCAACCTTGCTTGTGGAGGAAGGGATCTGCAAAACACTCCAGGCAGTTCAGCTGTGAATGCCAAAGA
GGGTTCTCTTGATGCCACCGACTGAACTGTGAAGATGTTGATGAATGTGATGGAACACAGGTGCCAACAC
GGCTGCCAGAACATCCTGGGGCTACAGATGTGGCTGCCCAAGGCTACATCCAGCACTACCAGTGAATCAG
TGTGTCGATGAGAATGAATGCTCAATCCAATGCCGTGGCTCTGCTTCCTGCTACAACACCCCTGGGAGTTAC
AAGTGCGCCCTGCCCTCGGGTTCTCCTCGACCAGTCTCCAGTGCCTGCCACCGACGTGAATGAGTGCCTGTC
TCCAAGAACCCCTGCAATTACGGCTGCTCTAACACGGAGGGGCTACCTCTGTGGCTGCCCTGGTATTAC
AGAGTGGGACAAGGCCACTGTGTCAGGAATGGGATTTAACAAAGGGCAGTACCTGTCACTGGATAACAGAGGTC
GATGAGGAAAATGCTCTGCCCCAGAACGATGCTACGAGTCAAAATCAACGGCTATCCTAAGAAAGACAGCAGG
CAGAAGAGAAGTATTGATGAACCTGATCCCAGTCTGTTGAACAGATCAGCCTAGAGAGTGTGACATGGACAGC
CCCGTCAACATGAAGTTCAACCTCTCCACCTCGCTCTAACGGAGCACATCCTGGAACTAAGGCCGCATCCAG
CCCCCTCAACAAACCATCCGTTATGTCATCTCTCAAGGAACGATGACAGCGTCTCCGCATCCACAAAGGAAT
GGGCTCAGCTACTTGCACACGGCAAGAAGAAGCTCATGCCGGCACACACACTGGAAATCACTAGCATCCCT
CTCTACAAGAAGAAGGAGCTTAAGAAACTGGAAGAGAGCAATGAGGATGACTACCTCTAGGGAGCTGGGAG
GCTCTCAGAACATGAGGCTGCAGATTCTGAGCTTACAGACTGGCCAGGCTAAATCTAGCACA
GCCAGTCTGAGAACGATTGAAAAGTCAAGGACTAATTTAAAGAGGAAAATAATAACTCTGTTCTT
CTCCCTGCTTAGACTTGAATGTTGACCTCACAGGGAGGATAATTTAGACTCTGGTATGCCAAAGATTG
AGCTCAAAGGCAACCGTGGTTACTGTATTTTATATAACTTCATTAAAGGAAACCTAAATG
TCAAGATATCAGCATATGGCACTAAATGCACAAAAATAATGTGAGCTTTTTCTGTTAGCAGTCTG
TAACACTTGGGTATTTGCTATAGTTGCTAATTAAGGAAATATAGATGTTATTTATTTAATGCAGTAATAT
ATGGAGAAATGAACAAACTATGTAACAAAAGGGAAACTCACTGTTTTCTTAGATTATAAAATTGAGCTA
TTTTTTAGAGGTGTTTAAATCCAATAGATACAAGAGATGTTCTGGTTCTGCCAGTCATCCAG
CTGATACACACCTGATGATTAAAGAAAGCCACACAGAGCTGAATGGCAGTGCTAATCAATAATTAAAG
ACATGAATGTCATTAGATCCTTATAACGTTAGATCGAAGCCAAAGCAGCTCATTGACAACATTCTATC
CAGACACACCAGGCAACAGAAGTGAAGCACAACCACTGTAGCAAATACCTGACTGCTGTGAGACCA
ATTGCAAGGCCAACCGTACTGTATTCCTCTCATACCTCAAGGAACCATATGTGCTACCCACA
CTTACCCAGGGTGCCTCGCTCATGGTACTGTAGGCAGCTGAAGAACGCCCTGAAAGGGAACACC
TGGCATTCTGTTGCTGTCTAAATAATGGTCATTATTATGTTCAAGTTATTTCAGGATTGCCAT
ATGTGCAAACAAATCATGCAATGCAGCCAAGGAATATGTTGTTGTTAAACCCATTTTTTAG
AATTTCTATTAATACTGTAGTTATACACCATATGCCCTATTATCATAGCCTATTGTTGATGAAAGATGTTG
ACAATGAATTGATGTTAGTTAGTCATTAAAGATATTGTAACCAAGGATGTGCTATTAGAGCAGCTA
TCCATTATTCTCAACCCAAGAACCTGTTCTGGACCAAGTGAACAAACCTCATATGTGAAATGCCAAAGCA
CATGCAGGCTCTGGTTCTCAACCTGCTGACCAAGATTAGTAACCAGTTACCCAGTATTTGA
GGTTTATTGTTTAAACTAAAAAAACTCGTGCC

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FIGURE 666

MGRRRRLCLQLYFLWLGCVVLWAQGTAGQPQPPPKPPRQPQQVRSATAGSEGGFLAPEYREEGAVASRVR
RRGQDVLRGPNVGSRFHSYCCPGWKTLPGGNQCIIVPICRNSCGDGFCSRPNMCTSSGQISSTCGSKSIQQCS
VRCMNGGTCADDHCQCQKGYIGTYCGQPVCENGCQNGRCIAQPCACVYGTGPQCERDYRTGPCFTQVNNQMCQ
GQLTGIVCTKTLCCATTGRAWHPCEMCPAQPPCRRGFIPNIRTGACQDVDECQAIPGICQGGNCINTVGSFEC
RCPAGHKQSETTQKCEDIDECSIIPGICETGECSNTVGSYFCVCPRGYVTSTDGSRCIDQRTGMCFSGLVNGRCA
QELPGRMTKMQCCCEPGRCWGIGTIPEACPVRGSEEEYRRLCMDGLPMGGIPGSAGSRPGTGGNGFAPSGNGNGY
GPGGTGFIPIPGGNGFSPGVGGAGVGAGGQGPIITGLTILNQTIDICKHHANLCLNGRCIPTVSSYRCECNMGYK
QDANGDCIDVDECTSNCNTNGDCVNTPGSYYCKCHAGFQRTPTKQACIDIDECIQNGVLCKNGRCVNSDGSFQCI
CNAGFELTTDGKNCVDHDECTTNMCLNGMCINEDGSFKCICKPGFVLAPNGRYCTDVEDECQTPGICMNGHCINS
EGSFRCDCPPGLAVGMDGRVCVDTHMRSTCYGGIKKGVCVRPFPGAVTKSECCCNPDYGFGEPCQPCPAKNSAE
FHGLCSSGVGITVDGRDINECALDPDICANGICENLRSYRCNCNSGYEPDASGRNCIDIDECLVNRLCDNGLC
RNTPGSYSCTPPGYVFRTECEDINECESNPCVNGACRNNLGSNFNECECSPGSKLSSTGLICIDSLKGTCWLN
IQDSRCEVNINGATLKSECCATLGAAWGSPCERCELDTACPRGLARIKGVTCEDVNECEVFPVCPNGRCVNSKG
SFHCECPEGLTLDGTGRVCLDIRMEQCYLKWDDEDECIPVPGKFRMDACCCAVGAAWGTECEECPKPGTKEYETL
CPRGAGFANRGDVLTGRPFYKDINECKAFPGMCTYGKCRNTIGSFKRCNSGFALDMEERNCTDIDECCRISPDLC
GSGICVNTPGSFECECFEGYESGFMMMKNCMDIDGCERNPLLCRGHTCVNTEGSFQCDCPLGHELSPSREDCVDI
NECSLSNDLRCRNGKCVNMIGTYQCSCNPGYQATPDRQGCTDIDECEMIMNGGDTQCTNSEGSYECSCSEGYALMP
DGRSCADIDECEENNPDICDGQCTNIPGEYRCLCYDGFMASMDMKTICIDVNECDLNSNICMFGECENTKGSFICH
CQLGYSVKKGTTGCTDVECEIGAHNCDMHASCLNIPGSFKCSCREGWIGNGIKCIDLDECNGTHQCSINAQCV
NTPGSYRCACSEGFTGDGFTCSDVDECAENINLCENGQCLNVPGAYRCECEMGFTPASDSRSCQDIDECSFQNIC
VSGTCNNLPGMFHCICDDGYELDRTGGNCTDIDEcadPINCVNGLCVNTPGRYECNCPPDFQLNPTVGVCVDNRV
GNCYLKFGPRGDGSLSCNTEIGVGVSRSSCCSLGKAWGNPCETCPPNSTEYYTLCPGGEFPRNPITIILEDI
DECQELPGLCQGGNCINTFGSFQCECPQGYYLSEDTRICEDIDECAFHPGVCGPGTCYNTLGNYTCICPPEYMQV
NGGHNCMDMRKSFCYRSYNGTTCENELPFNVTKRMCCCTYNVGKAGNKPCEPCPTPGTADFKTICGNIPGFTFDI
HTGKAVIDECKEIPGICANGVCINQIGSFRCECPTGFSYNDLLLVCEDIDECSNGDNLQQRNADCINSPGSYRC
ECAAGFKLSPNGACVDRNECLEIPNVCSHGLCVDLQGSYQCICHNGFKASQDQTMCMDVDECERHPCGNGTCKNT
VGSYNCILCYPGFELTHNNDCLDIDECSFFGQVCRNGRCFNEIGSFKCLC

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FIGURE 667A

GGGGAGGAAGAAAGGCGAAGGCAGGGCAAGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGGACAGCG
GACGAGCAGATCCGGTATCTGAATCCGGCGCCTAGAACGTGTTTCGGGAGAGCAAAGGCTGTGCTACGGC
AGGCTGGGATATAGCCTCTCCGATGAAAAGAGAAAGGAAGA**ATGG**ACTACAGCCACAAACGCCCTAGT
CCCAGTGGACAAGATAAATACATTCCAAAATGAACCTCTCTGCATCTGAAGACCTACAACCTGTACTATGA
AGGCCAGAATTACAGCTCCGGACCAGGGAGGAAGAAGACGAGTCATTGTGGAGGGCTCTGAACATCTCTG
GGGCCTGCGCCGGCCATTGCCTGCAGATGCAGGATGACAACGAACGCATTGACCCCCCTCATCCTCTCCTC
CTGGCACTCTGGCTGTAACCTGGGGCTCAGGGAAACCACTCTGAAGCCCTGACTGTGCCCAAAGTTCAGATCTC
AGAGGTGGATGCCCGCCGGAGGGTACCCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCTGCAGGA
GGACACCCACAGCTGATGCCACACGCAGTGTGATGGGGTGCCTGCCGGCAATGTGAGGACGCTAGTGA
CCAGCGCGAATCAGGCCACCGCTTCCATCACGGCATTCTACAACCATAAGACATCCGTGTTCACACC
AGCCTATGGCTCTGTCACCAACGTCCGCATCACAGCACCATGACCACCCACAGGTCCCTGAAGCTGCTGCTCAA
CAAATTIAAGATTGAGAATTACAGCAGAGGAGTTGCCTGTACGTGGCCATACGAGTGGTGAGAAACAGAAGCT
GAAGGCCACCGATTACCGCTGATTGCCGAATCCTCCAGGGCCATGTGAGCAGATCTCAAAGTGTCCCTAAT
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCAGTATATAAGTTGAGATGCCGTACTTAAAG
CTTCATTICAGAACGCTCCAGGAGGAAGAAGATCAGGGAAAGTAAAGAACGCTGATGCCAAGTACACCGTCTCCGGCT
AATGATTGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATC**TGAG**CCTGAGAACGAGGGGATCTGG
GCACCCAGGAACCGCATTGCCATAAGACCCCCAGGAAGCTAGGCACCTTCTTCCATGAAACATTAGACA
CAAACCTCCCCAGCTCCGGCCAAGCCATCATTGCTACCTGGAGCTGGATGAGAACGTCAGCAGACAGCTCCCTA
TCCCTGGACCCCTGCCCTCTTGCTCACAAGGACTTTGATTAGTTATAAGGAGGACCCAAATGTG
TGTGTGTACATGTGTGACACATGGTACGTGTCATGTGCTTACCTGATACTTCACATGTAATTAAATTCCA
GGCAACCAGCACAAGAGCCGTGAGCTGGCACATGTGCTGAGCAGGAAATCAGAGGAGCCACTGATCT
GAGTGGTATTAGGTTGAAGGAAAGATTCTCCTCTCAAGTGCCAGGGAGCAGCCACACGCTGTCTGTGTTAG
AGAGGGAAAGAGGGTTCTCAGGTTCACATTGGGTTGTTATATGTTGGTAGAAATTCTCCTGTATGCCCTAGA
AGGATCAGTGAATGTAAGAGCCTGGAAATTAAACAAAATAACGCCACATAACCTGCGGCAAGTCTGATGGAAA
AAAAAGATAAACCATCCGTGGGTAGATGCAATAAGCCACGTATTTACACTGAAACGTTGATTGTTAA
ATGACAAGACATATGTGATGTTCTATGTGGAAACCTGTGAAGAGTGGATTCTGCCCTCATCTGCCCTCATGG
CTACCTTCTGAGGAGACAGAGAACGATCTGTGTTCTCTGACCCAGCTGACAGCCTGCTCTATGGCCTTCC
TGAGTGGAGGAATGTCTCAAGAAACAAAGATCTGCTGGTGCACAGTGCTGACCAGCTAGTGTTGGCCAG
GCCCTGGGCCCTGGGCCAGGAAGTTCAAGGTTGAAGGAAATGTCGAGGCTACCTGCAAGATATGACAGGTGC
CTTGAACGCAGCCATCTCATGTCATCAAAGGTCTCCTGCACCTGAAGCTGGGCGATTTGCAAGAC
CATTCTTCCAACCTCTGGTTCTGCAAGTTGCCCTCACCTTGTGTTGGAGATGCAATTCAAAGAATGAAGCCT
CATCTGCTACTGAGTGTGGGTTCAAGGAAGCTTCTAGGCCACCTGGTGAAGGTGCATGGGAGGATGGAGCT
TCTCCTCAGCTCTGAGCAGCCACCTATGTGATCTTAAATCCAACCCAAATGGGAGAAAGGGCAAGAACAG
TCTGTGCCCTGGACTCCTATCAGGAAGCTTGCACAGGCAAGCTGGCATCAGTGCACTGATATGTTGAGGAGG
GAGACAGATGCTGGACCTGGTGCCTGGTATGGAGATTGACCAAGCAAGATCAGGAGCTCTGATAGCAGGCG
TCTTGAGCCTAGCTGGGAGAGGCACTGCCATCTCTCCACCTCTCCACAGAAATGTTGCAAGAGCTG
GGCAGTTGAGGAAGGACAGCCCTGGTGGCCTCCAAAGGAAGTGGACTTTGGTGGAGACGTTCTGC
CCTGGGACCCCTCTGCCCTGGGCGATTACACCTATGGCTTCTGAGAAGGCTCACAGCTGTGGCTTAACGTAGAC
TGCAGAAAGATGGCATGCCCTGGCATTGCCAAGGGTTATAGCAAGTCTCTCCATAGGGACAG
CAGCACCCAGCTGTGGGAGATGGAGTGGAGGCCAGAAGGGCTCTGCAAGCTGCACAGAACGACTGGGTAAGAAG
ACAAAGAGTAGCCACCGGGAGAGGCTTCTTGTACAGCTGGGAAAGAACAGTCTGTGAATGCAAACACCTCC
TGAGTTGCAATTGAGAAAATGATTGGAGAACCTCTCTGGTAATTGAAATTGATGTTGAGGCTTA
GTGGCCCCAGTAATTCTCTGGAGGACTTGGGAGAACGAAACTACTAACCAACTAGCTCTT
ACTGGACAGCGATTCTGGCTTATAAGAGTCTCTTGTGTTGCACTAGCACTACGATAGTGTAGATGGGAAA
TACTGCAACATGTCCAGTTGCCAGATCCTTCCAAGGGAGCGATACTAACGGCAGACTCAGCTTTAAAGATG
GGAGGTAGGAGGTGGAGTGGAGAGGAGATCCCATCTCACACAACACACTTCCACGTAATGCAAGACCAACTTT
CCATTGCTCTGCCCTTGTGAGAGGTCAATTCTCACGTCCTAAGAACCTGATCAGAAATTGGAAGGGTCTT
TGAAATAGCAGCTGAAACAGAGACACTTGCACAGTGAGGAGCAGATTCTCACTGGTATCACATGGTCT

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FIGURE 667B

TGCAGTTTGAACCTTCGACCGATTGTGGGAGTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG
ACAAAAGACCAGTTATAGGGTTGGGTTTTTCCAACTTGTGAAAGCAGTTAGCTGCATCTGTCTCCCCCAC
CACCCCCACCCGGGAGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT
GGTGGAAATTAAGCACAAGGTACATTCTGTGATCACATGAGAGGGAGGGTGTGACTTAATGGCAGGGGTG
GGGATTATCTTGGGGAGGGCTGAAAAGCACAAAGATACTTGTGAGGCAAGAGGATTCTGGATATTAGTCACCCATCTGCAAGAAA
GGCTGGATGGACTTCAACTTGGAGTTGAGTGTGAGGCAAGAGGATTCTGGATATTAGTCACCCATCTGCAAGAAA
AATGCTGAGGCTCGGGTCAAGATTTGATCTGAGACATGCTGATGCTCAAGGAGAAATATTTACAATCCTC
TCTTCCCTCACCAAGAGAACAGTACTCTCTTAGAAACCTCTAGGTAAACACATTATCCTAATATCGGT
GCATATAATGCCCCCCCAAAATATCTGTTTCCATGCAAAAAAGTCTCAACAAGAAGTCTGTGGAGTTGAGTGG
TTACTTCAAAGTGTCAAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTTAAGAAAAGGGAAATTCT
CTTAAAGAAACCACCAACAACAAAACCAACAAACCAACATGTTATGTCAAAGCTCTGTAGCACAGAGAAT
GTGGTGTACAGATACTCGCCGAGAGAGGTTCTTCTTTTTTTTTGAGACAGAGTCTGGTCTG
TTTCCCAGGCTGGAGTGCAGTGGTGGATCTCAGCTCACTGCAACATCCGCCTCTGGGTTCAAGTGATTCTCCT
GTCTCAGCTCCAAAGTAGCTGGAATTACAGGGACCCGCCACACGCCGGCTAATTTTTGTGTGGTTAGT
AGAGGTGGGTTTACCATCTGGCCAGGCTGGCTTGAACCTCTGACCTCGTGTACCCACCCGCTAGGCCTCCC
AAAGTGTGGGATTACAGGCGTGAGCCACTGTGCCAGCCAAAAGAGAAATTCTACATGAACAAGGCAATTCA
GTGTCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT
AGCAGCACACATTACGTTCCACTAAATCGTTTGCACAAAGTCTGCTCGCTCAGATGAGATGAGAT
GATTCTAGAGATGTAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAATAGAAAGCTCTGCCCTA
TCACAAGGGGGTGTGAAGCGCCCTTGTGTTAACTGTATTAACTGAGCACAAGATGCACAAGCTGTGGTG
GGAAACCTCAGTTACCTTGGAGTCTCCCTGCAGATCGCAGACCTGTTCCAGGCTGATGTTCTGGTGTG
AATTGCTAGCGTTCTGAAGGGTTTCCAATTGTTAGCCTGTGAAGTATTCTTAATTATAACTTGCCTTTC
AGCGATGGTACATGACTTGATTCAACGTTGGTTCTGAACCTACACACTGATGCGTTACTCATCTAACATAATC
TGACAGGGCCTCAGCAAGGGAGCCATACATTGTAAACATTGATATGTTAATGCATCTGACTTAGATCTT
ACTGAAATAAAGCATTCAAAGAG

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FIGURE 668

MDYSHQTSLVPCGQDKYISKNELLLHLKTYNLYEGQNLQLRHREEEDEFIVEGLLNISWGLRRPIRLQMDDNE
RIRPPPSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSSTDSRGLKPLQEDTPQLMRTSDVGVR
RRGNVRTPSDQRRIRRHFSINGHFYNHKTSVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAEEFALYV
VHTSGEKQKLKATDYPLIARILOGPCEQISKVFLMEKDQVEVTYDVAQYIKFEMPVLKSFIQKLQEEEDREVKK
LMRKYTVLRLMIRQRLLEEIAETPATI

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FIGURE 669

CCCGCTGGCCAATGGCAGCGTCTACAGTGTAGCCTCGCCTCCGATTGACTGGCTGCTGGCAAGGCAAGT
AGCGCGGGCGTTCAAGATCGCTGCCGACCACGCCTATGCTGCTGCCGCTGGCCCAGGCTGCACGTGCAG
GACCTCTGGTGGCGGAGCCTCACAGCAGTGCAGTGGCAGCCACCTACAAGTATGTGAACATGCAGGATCCG
AGATGGACATGAAGTCAGTGACTGACCGGGCAGCCGCACCCCTGCTGTGGACTGAGCTCTCCGAGGCCTGGCA
TGACCCCTGAGCTACCTGTTCCGGAACCGGCCACCATCAACTACCCGTTGAGAAGGGCCCTGAGCCCTCGCT
TCCGTGGGAGCATGCGCTGCCGGTACCCATCCGGGAGGAGCGTTGCATTGCCCTGCAAGCTCTGCCAGGGCCA
TCTGCCCGCCCAGGCCATCACCATCGAGGCTGAGCCAAGAGCTGATGGCAGCCGCCGGACCACCCGTATGACA
TCGACATGACCAAGTCATCTACTGCCAGGAGGCCTGTCCGTGGATGCCATGTCGAGGGCCCCA
ACTTGAGTTCTCACGGAGACCCATGAGGAGCTGCTGTACAACAAGGAGAAGTTGCTCAACAACGGGACAAGT
GGGAGGCCGAGATGCCGCCAACATCCAGGCTGACTACTTGATCGGTGACGCCAACCGGCCCTGCAGCCCTGC
TGCCCAATAAAACCACTCCGACCCACGG

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FIGURE 670

MRCLTTPMILLRALAQAAARAGPPGGRSLHSSAVAATYKYVNMQDPEMDMKSVTDRAARTLLWTELFRGLGMTLSYL
FREPATINYPLFEKGPLSPRFRGEHALRRYPSGEERCIACKLCEAICPAQAITIEAEPRADGSRRTRYDIDMTKC
IYCGFCQEACPVDAAIVEGPNEFSTETHEELLYNKEKLLNNNGDKWEAEIAANIQADYLYR

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FIGURE 671A

CTCCTTCATAAGGGTCTGGCCTTCATCCCTCCGCTTCACCAGACCCCTCACCCCTGGGAGGCCACCTCCC
 TTTCCCCAAGACCAAGATGTCGCAGCGGACACAGCCAGCAGGAGAGTCGATGCCGGCTCTGAGCTGCGCAG
 TGGGTCTCCCGTCCCAGCAGCCTACAGGCGGGTAGCAGCTGGGGAACATGGCCGCTCCGGCTCCCTC
 CGGGCCGGCGCTGGCCTGACTGCGGCCGGTCCGTAGCAGCTCCGCCCTCCGCTCTCCGCCCTGTAGCCGCG
 AAGACTGCTTCAGCCTTCCCTGTGCTGCCGCG**ATGG**GAGACGAGCTCGAGCTGCGAGAGTCCTGGCT
 CCCAGCCGGCGGGCTGGCCAGCGTGGACTCCTGTCAGTGCCTCACTTCTCATTCACTCAGAGAAATTCA
 TGCATACAAAATCAGTTCTGTATCATCAGATTCAACTTCTGCCGACAACATTCTCCTGATTGA
 GGGTCTGAGGGAGTCTAACAGTTAGCAGAAATGGAAGAACCCCTGCTTCAGGAGAAAATATTAAGACA
 TGGCAAAGATGTAACCTATATGTCCATTCACTGGCGCTGTACGAGGAACCTGACTGTCACGAATTATAGGT
 TATATTCAAAAGCATGGAACGGGATCCCCATTGTTAGATGCTTCCCTGGTGTGATAAAATAGAGTAGAAA
 AAATTGGTGGTCTAGTCGAGGTGAAAATTCTATGGACTAGAAACTGTGTGTAAGGATATTAGGAATTAC
 GATTTGCTATAAACCTGAGGGCGGACAAGAAGATCCATTGAGAATCTAATGAAATATGCATTCCGTCT
 CTAATAACCTGCCTTTTGCTTTGAATACAAAGAAGTATTCCCTGAAAATGGTGGAAAGCTATATGACCCCTC
 TTTAGAGTATAGAAGGCAGGGATTCCAATGAAAGCTGGAGAATAACAAAGATAATGAACGATATGAACTTT
 GTGATAACATACCCCTGCCCTGGTTGTGCCAGCAAATTCCCTGATGAAGAATTAAAGAGAGTGGCATCCTTCA
 GATCAAGAGGCCGTATCCCAGTTATGGATTCACTGGCTGAAAGTCAAGCCACAATCACTCGGTGTAGCCAGC
 CCATGGTTGGAGTGGAGAAGCGAAGCAAAGAAGATGAAAATACCTTCAAGCTATCATGGATTCAATGCC
 AGTCTCACAAATCTTATTTGATGCCGGCCAAGTGTAAATGCTTGTGCAACAAGGCAAAGGGTGGAGGTT
 ATGAAAGTGAAGATGCCTATCAAATGCTGAACTAGTTCTGGATATCCACAATTCTATGTTATGAGAGAAT
 CATTACGAAAACCTAACAGGAGATTGTGACCCAACTTGAAGGAAACTCACTGGTTGTCAACTTGAATCTACTC
 ATTGGCTAGAACATATTAAGCTTATTCTGCAGGGCTCTAGGATTGCTGACAAGGTAGAGTCAGGGAAAGACGT
 CTGTGGTAGTGCATTGCAGTGGATGGGGATCGCACAGCTCAGCTACTCCCTGCCATGCTCATGTTGGATG
 GATACTATCGAACCATCCGAGGATTGAGTCAGTCTGGAGAAAGAATGGCTAAGTTGGACATGATTCAAC
 TAAGAGTTGCCATGGAGATAAGAACCATGCAGATGCAGACAGATGCCGTTCTCAATTATTGACTGTG
 TCTGCCAGATGACAAGACAGTTCTACCGCATTGAATTCAATGAGTATTCTCATTACCAATTGGACCACC
 TATACAGCTGTTATCGAACATTCTCTGTAATAGTGAACAAACAGAGAGGAAAGAGAAATCTCCTAAAGGA
 CTGTGTCAGTGTGGCTTACATAAACAGCCAGCTGGAGACTCACTAACCTCTATGGAGCTATTCAAC
 ATGTCCTTATCCAGTAGCCAGCATGCCAACCTAGAGCTGGTGGGATATTACATAAGGTGGAAATCCACGGA
 TGAAACACAGGAACCTATTACAACAGATAAAAGAACTTCTGCTAAACGAGAGCTCAGAAAAAGTAG
 AGGAACATACAGAGAGGAGATTCTAACCGATCAACCTCATCCTCAGAGAGAGGCCAGCTCCTGCACAGTGTCA
 CTCCGTCCAAACTGTTGT**TAA**AGGACTGTAAGATCAGGGCATATTGCTATACACTCTGATTACACTGGCA
 GCTCTATGAGTAGAAAGTCTCGGAATTAGAACCCATCTATGAGAGAAAGTTCACTTACTTTTAA
 TCTCTCTAGGATGAGTTAGAACTGTGAGTCAGTGGCTTAAGTGAAGTAACCTCATATGTAATTACATGAT
 TATGATAACTATCTTTAAGTATCCAAGAAATTAAAATACCTCAATCTGGATTACAGTGGGAACAAGTTTC
 TATTAAAAGGCAAATGCTTACAAATTGGCATCTGGTAATATTAAAACCATTAGAAATACACTCTGTG
 TCACTGTGAGAGAACATCAGTTCAAACCAACTGAAATTCTGTTGACATCACATATATTGGCCTTGATGT
 CATGACAGATCAAATCATTGATATCCCTTCTCATTCTAGGTTCTTCTCAGTAACTGATTACCTT
 GATCACTTTCAACTCCATATTCTCATATAGTAAAGGCAAAGTATTGAAGATACTACGGTGTGGTAGTGT
 GAAAATTATTGCCGTATTATTACATACTTAAGACATATTAGCAAGTTGATCCAAAATGGGAGGCCTATAGAT
 GTGCTGGGGAAATGAAGGGGAGAAAGTAGCCATACAGGAGTTCAAGAACATTCCATGCCCTCAGATTAGCCC
 AATTACCAAGAACATCATGAAAGATATTAAAACATTATTACTACAGTGTATTCACTTGTCTGTGT
 CTGAACACACAGAAGCTAATTAGCAAGTTAAGAAGTATTAAAATCTACTAGGATTGACATTCTCTGA
 ATTCTGTATAAATAGCTTATAGTGAAGAAGTACTGTGCTCAAATTTCATTTTCTTGCACATTCTGTAAAT
 TTCACTCAACGATTAAGTCTACCAAGAACACACTGCACTGAAAGATGTATTACAATCTCAAAGCCAGTAAAG
 AAATCTGCTTCACTGTTACCTGCTACAAGTAAGAGTTGGTAGAAACATTGACTCTGATGTCTATT
 TTATTCTACATAAGAGCCATATGTAATGTACTGTAACAAAGGAGCTTGTCCCTGGCTTTAATTAAAAG
 AAATTCCAACGTACTTTAAACTTTGTTCTGTCCAAAGTTGCCATTCTTTTCCCCAGAAATATTGGAA
 ATTATTGGAGGAATATGCACCCAGATGAAATGTTGACCCATTTCCTTAACCAACACCAAATCA

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FIGURE 671B

AACAATTAAAATACAGTGTGTTCCACTCACTAATTCACTATAACAGAGAGTCAGAACCTAGCCTCCCTTGGCTTG
GTCTTGAGTGAAGGAAATTCTATTAGTATATCCAATTAGCAAAATTGGTACCAAAATGATTCTTGGTAATT
GTGTGAAATATAAGCTTTAACAGGGCATTAAAGTGGCTAGCAAATCAGTAATTAAAAATAAGCTTCTACTC
CAAGTATTCAACAAATGCATCTGCCATTTCCTCATTTAAACCTTGGTTATCTGGCCTGATACCACATAAAAGA
ATGTAGAATGGCTGAAGAGATCAAGAATTAAAGCTTAGTCTTAACATACTTGCATCCACTCAAATTCAAAT
CAAAAGCCAGGGAAATCTAAGTGCACCCCTACCACTTCTGCTGAGAACCTTCCAGTGGTTCCCCTCACCTCT
GCAGAAGTCTCAATATGGAGTACATGCACTTGGCATTAAATATACCACTGGTGTGTGGGAGGGAGGGAG
GAGGAATACTAGCCCTTTTATATATTACACAAGAAAACCTTTAAATATTGAATTGACAGTTACATGTTCA
TAACCTCGTATGCTATTGGTGTGCAGGTGTAATTTCCTTGTGATTAGGGTACAAAATTAGAGACCA
GTATGATTAAGTTGAAGCTCCTAGCCTCCTCGACCTAGTCTCTGCATACCTCAACTTTACGTACCAATGCTA
CTCTGCTGTTACAATTGCCTCATGTAATCTGCAGATTCCGCCTCCACTTGGTTCAGTGTCTGTGCAC
CTGGAACAACGTCTCCCTGTGACTAATTCTATTCTAGAGTTAGGCATCATCTCTCCTTGGGAAGTT
ATCTGATTACGACTGCCTCTCTGACATCCCCACCTTCCCTGTGCCCCCATAGCACTGTGTATACCGCTACTA
CCACTGCAATTACATTATATTGGAATGAACAATTACATGTCTACCACAAAGTCTGTAAACATAACCTTATTGAA
AATGAATTGCAATAAGCTCTGTTACAACGT

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FIGURE 672

METSSSCESLGSQPAARPPSVDSLSSASTSHSENSVHTKSASVVSSDSISTSADNFSPDLRVLRESNKLAEMEE
PPLLPGENIKDMAKDVYIICPFTGAVRGTLTVTNYRLYFKSMERDPPFVLDASLGVINRVEKIGGASSRGENSYG
LETVCKDIRNLRAHKPEGRTTTSIFENLMKYAFPVSNNLPLFAFEYKEVFPENGWKLDPILLEYRRQGIPNESW
RITKINERYELCDTYPALLVV PANIPDEELKRVASFRSRGRIPVLSWIHPESQATITRCSQPMVGVSGKRSKED
KYLQAIMDSNAQSHKIFIFDARP SVNAVANKGGGYESEDAYQNAELVFLDIHNHVMRESLRKLKEIVYPNIE
ETHWLSNLESTHWLEHIKLILAGALRIADKVESGKTSVVVHCS DGWDRTAQLTSIAMLMLDGYYRTIRGFEVLVE
KEWLSFGHRFQLRVGHGDKNHADADRSPVFLQFIDCVWQMTRQFPTAFEFNEYFLITILDHLYSCLFGTFLCNSE
QORGKENLPKRTVSLWSYINSQLEDFTNPLYGSYSNHVLYPVASMRHLELWVGYYIRWNPRMKPQEPIHNRYKEL
LAKRAELQKKVEELQREISNRSTS SERASSPAQC VTPVQTVV

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FIGURE 673B

CGGTGCCTACACAATGGCACCTGCGTGACCTGGTGGTTCCGCTGCACCTGTCAGGAGATACTGGT
 TTGCGCTCGAGGCAGACATCAATGAGTGTGCTCAGGTGCTGCCACGCCACACACCCGGACTGCCTGCAG
 GACCCAGGGGGAGGTTCCGTTGCCTTGTCTGCTAGCTGGCTCTCAGGTCTCGCTGTCAAGACTGTCTGTCTCC
 TCGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGCCCTAGCCGGTCTGGGGTGGGCTGACCTTCACC
 TGTCAGTGTGCCAGCCATTGGGTCGCTGAGCAGACGCCGGCGCTGCCCTGCCGGAGCTGCAAGTGCAGTGC
 GTGGCGTCCATGCCAGCAGACGCCGGCGCTGCCCTGCCGGAGGTTGTCTGGGACCTCTGCTCC
 CGCAGCTTCCCAGGGTCGCCGCCGGGGCAGCAACGCCAGTGCAGGCCGGCGCCCTGTCTCCACGGGGCTCC
 TGCCGCCCGCGCTGCCCTTCTTCCGCTGCCTGCCAGGGCTGGGACCCGGCGCTGCAAGGCCAGCGCAGGCG
 CCCGCCGGCACCCGAGGTCTGGAGGAGCCGGTGCCTGCCAGGGCAAGCGCAGGAGACAG
 CGCTGCAACCGCAGTGAACAGCCCAGGCTGCCAGGGACTGCTGAGCAGTGTGGGACCCCC
 TGGCGCAATGCGAGGCGCTGCACTGCTGGCGCTTCAACAAACAGCCGCTGCAGCCGGCTGCAGCTGC
 GCCTGCCCTACGACAACCTGACTGCCACGCCGTGGCCCGAGCGCACTTGCAACCCGGTGTACGAGAAGTAC
 TGCGCCGACCACCTTGCAGGCCGCTGCGACCAAGGGCTGCAACACGGAGGAGTGCAGGCTGGATGGCTGGAT
 TGTGCCAGCGAGGTGCGGCCCTGCTGCCCGCGCTGCTGGTGTCAAGTGCTGCTGCCGGAGGAGCTA
 CTGCGTCCAGCGCCGACTTCTGCAGGGCTAGCGCCATCCCTGCCACCTCGCTGCCCTCCGCTGGACGCC
 CACGGCAGGCCATGGCTTCCCTAACACCGGCTAGTCTGGCTCCGAACCCGGCCGGAGCTGGC
 CCCGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGGCTGCCAGTCAGTGCCTGAGAATGATCAC
 TGCTTCCCCGATGCCAGAGCGCCGCTGACTACCTGGAGGCGTTGTCAAGCGTGGAGCGCCTGGACTTCCGTA
 CCACTGCGGGACGTGCGGGGAGCCGCTGGAGCCTCCAGAACCCAGCGTCCCGCTGCTGCCACTGCTAGTGGCG
 GGCGCTGCTTGCTGGTCAATTCTCGTCTGGGTGTCAAGGGCTGGCCGGCAAGCGCAGCACGCC
 TGGTCCCTGAGGGCTTCTCACTGCAACAGGACGTGGCCTCTGGTCAACAGGGCCGGGAACCCGTGGAGCAG
 GACCGCCTGGGATGAAGAACATGGCAAGGGTAGAGAGCCAGGCATGGGAGGTGGCCACAGACTGGATGGACACA
 GAGTGCCTAGAGCCAAGCGCTAAAGGTAGAGGAGCCAGGCATGGGAGGTGGCCAGACTGGATGGCTGAG
 TGGACTCAACACCATCTGGTGTGACTGACATCCGCTGGCACAGCCATGGCACTGACACCACAGGGCGAC
 GCAGATGCTGATGGCATGGATGTCAATGTGCTGCCAGATGGCTCACCCGTAATGCTGGCTTCTCTGT
 GGGGGGCTCTGGAGCCAATGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCTCCGACCTG
 ATCTGCCAGGGCTCAGCTGGGACGGACTGACCGTACTGGCGAGACTGCTTGCACCTGGCTGCCGTAT
 GCCCGTGTGATGCAGCCAAGCGCTGCTGGATGCTGGGAGACACCAATGCCAGGACACTCAGGCCGACT
 CCCCTGCACACAGCTGTCAGCGATGCCAGGGTGTCTCCAGATTCTCATCGAACCGCTCTACAGACTTG
 GATGCCCGATGGCAGATGGCTAACGGCACTGATCCCTGGCGCCGCTGGCAGTAGAGGGCATGGTGAAGAG
 CTCATGCCAGCCATGCTGATGTCAATGCTGTGGATGAGCTGGAAATCAGCCTTACACTGGCTGCCGTGTG
 AACAACTGGAAGCCACTTGGCCCTGCTAAAAATGGAGCCAATAAGGACATGCAAGGATAGCAAGGAGGAGACC
 CCCCTATTCTGGCGCCCGAGGGCAGCTATGAGGCTGCAAGCTGCTGTTGACCACTTGCCAACCGTGAG
 ATCACCGACCACCTGGACAGGCTGCCGGGACGTAGCCCAGGAGAGACTGCACCAAGGACATGTCGCTTGTG
 GATCAACCCAGTGGCCCGAGCCCCCGGTCCCCACGCCCTGGGCTCTGCTCTCCAGGGCCCT
 CTCCCTGGCCTCAAAGCGGCACAGTCGGGCTCAAGAAGAGCAGGAGGGGGGGAGGGGGCTGGGCG
 CAGGGGGCCCGGGGGGGCAAGAAGCTGACGCTGGCCTGCCGGGGCCCTGGCTGACAGCTCGGTACGCTG
 TCGCCCGTGGACTCGCTGGACTCCCCGCGCTTCTGGTGGGCCCCCTGCTTCCCTGGTGGCTTCCCCCTGAG
 GGGCCCTATGCACTGCCACTGCACTGCACTGCTCTGGCACAGCTGGTGGGCCCCAGGGGGGGAGGTCTAGGG
 CGCCAGCCCCCTGGAGGATGTACTCAGCCTGGCCTGCTGAACCTGCTGGCTGCCAGGAGACTGCTCAACCCAGGG
 CTGCCCCCAGCTGCCACTGCCAGGGGGGGACGTGCTGCCACTGGCGCCGGGACCCAGCTGCTCAACCCAGGG
 ACCCCCGTCTCCCCGAGGAGCGGGCCCCGCTTACCTGGCAGTCCCAGGACATGGCAGGAGTACCCGGTGGT
 GGGGCACACAGCAGCCCCCAAAGGCCGCTTCTGCCGGGTTCCAGTGAGCACCCCTACCTGACCCATCCCC
 GAATCCCCCTGAGCACTGGGCCAGGCCCTCACCTCCCTCCCTCAAGACTGGTCCGAATCCACGCCCTAGCC
 ACTGCCACTGGGCCATGCCACCAACTGGGCACTGCCCTGCCAGCCACTTCCCTGCTGTTCCAGCTCC
 CTTGCTCAGGCCAGACCCAGCTGGGGGGGGAGCCGGAGTACCCCCAAGAGGCAAGTGTGGCTGAGACGCT
 CGTCAGTTCTAGATCTGGGGCCTAAAGAGACCCCCGCTCTGCCCTTCTGCTCTTCTGCTTCT
 TTAGTCTTTCATCCTCTTCCACCAACCCCTGCACTGCCCTGCAAGCGTGAACGAGATAGGTCA

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FIGURE 673C

TCAGCCCAGGGCTTCAGTCTCCCTTATTATAATGGGTGGGGCTACCACCCACCCTCTCAGTCTTGTGAAGAG
TCTGGGACCTCCTCTTCCCCACTTCTCTCTTCCCTCATTCCCTTCTCTCCTCTGGCCCTCTCATTCCCTAC
ACTCTGACATGAATGAATTATTATTATTTTCTTTTCTTTTACATTGTATAGAAACAAATTCAATT
TAAACAAACTTATTATTATTACAAAATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGT
GCCCGCGTGGGCCTGAGTCTGTGGGCCATTGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGG
GATCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCCTGGCGCACCCACTGGGGCAGGGG
TCGGGGGAGTGTGGGAGCCTCCCTCCCCACCCCTCCCTCACTTCACTGCATTCCAGATGGACATGTTCCAT
AGCCTTGCTGGGAAGGGCCACTGCCAActCCCTCTGCCCCAGCCCCACCCCTGGCCATCTCCCTTTGGAACT
AGGGGGCTGCTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCCTATGTCCTGTAAATGTGGACTAC
AAGAAGAGGAGCTGCCTGAGTGGTACTTCTCTGGTAATCCTCTGGCCAGCCTATGGCAGAATAGAGGT
ATTTTCTGGCTATTGTAAATATGGCTCTGGTAAAATCCCTGTGTAGCTGAATTCCAAGCCCTGCATTGTA
CAGCCCCCACTCCCTCACCACTAAAGGAATAGTTAACACTCAAAAAAAAAAAAAAA

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FIGURE 674

MGPGARGRRRRRPPMSPPPPPPVRALPLLLLLAGPGAAAPPCLDGSPCANGGRCTQLPSREAACLCPPGVGER
CQLEDPCHSGPCAGRVCQSSVAGTARFSCRCPRGFRGPDCSLPDPCLSSPCAHARCSVGPDRFLCSCPFGY
QGRSCRSVDERVGEPCHRGGTCLNTPGSFRCQCPAGYTGPLCENPAVPCAPSPCRNGGTCRQSGDLTYDCACL
PGFEGQNCEVNVDCCPGHRCNLNGTCVDGVNTYNCQCPPEWTGQFCTEDVDECQLQPNACHNGGTCFTLGGHSC
VCVNGWTGESCSQNIDDCATAVCFHGATCHDRVASFYACPMGKTGLLCHLDDACVSNPCHEDAICDTNPVNRA
ICTCPPGFTGGACDQDVDECSIGANPCEHLGRCVNTQGSFLCQCGRGYTGPRCETDVNECLSGPCRNRQATCLDRI
GQFTCICMAGFTGYCEVDIDECQSSPCVNGGVCKDRVNGFSCTCPGFSGSGTCQLDVDECASTPCRNGAKCVDQ
PDGYECRCAEGFEGTLCDRNVDDCSPDPCHHGRCVTDIASFSCACAPGYTGTRCESQVDECRSQPCRHHGKCLDL
VDKYLRCRCPSTTGVNCEVNIDDCASNPCTFGVCRDGINRYDCVCQPGFTGPLCNVEINECASSPCGEGGSCVDG
ENGFRCLCPPGSLLPLCLPPSHPCAHEPCSHGICYDAPGGFRCVCEPGWSGPRCSQSLARDACESQPCRAGGTCS
SDGMGFHCTCPPGVQGRQCELLSPCTPNPCEHGRCESAPGQLPVCSCPQGWQGPRCQQDVDECAGPAPCGPHGI
CTNLAGSFSTCHGGYTGPSQDQINDCDPNPCLNGGSCQDGVSFSCSCLPGFAGPRCARDVDECLSNPCGP
CTDHVASFTCTCPPGYGGFHCEQDLPDCSPSSCFNGGTCVDGVNSFSCLRPGBTGAHQHEADPCLSRLPCLHGG
VCSAAHPGFRCTCLESFTGPQCQTLWDWSRQPCQNGGRCVQTGAYCLCPPGWSGRLCDIRSLPCREAAAQIGVR
LEQLCQAGGQCVDEDSSHYVCPEGRTGSHCEQEVDPCLAQPCQHGGTCRGYMGGYMCECLPGYNQDNCEDDVDE
CASQPCQHGGSCIDLVARYLCSCPPGTLGVLCIEINEDDCGPGLDSCPRCLHNQTCVDLVGGFRCTCPPGYTGL
RCEADINECRSGACHAAHTRDCLQDPGGGFRCCLCHAGFGSGPRCQTVLSPCESQPCQHGGQCRPSPGPGGGLTFTC
HCAQPFWGPRCERVARSCRELQCPVGVPCCQQTGPRGRCACPPGLSGPSCRSFPSPGASNASCAAAPCLHGGSC
RPAPLAPFFRCACAQGWTGPRCEAAPAAPEVSEEPRCPRAACQAKRGDQRCDCRECNSPGCGWDGGDCSLSVGDPW
RQCEALQCWRLFNNSRCDPACSSPAELYDNFDCHAGGRERTCNPVYEKYCADHFADGRCDQGCNTEECGWDGLDC
ASEVPALLARGVLVLTLLPPEELLRSSADFLQRLSAILRTSLRFLDAHQAMVFPYHRSPGSEPRARRELAP
EVIIGSVVMLEIDNRLCLQSPENDHCFPDAQSAADYLGALSAVERLDFPYPLRDVRGEPLEPPEPSVPLPLLVAG
AVLLLVLVLGVMARRKREHSTLWFPEGFSLHKDVASGHKGRREPVGQDALGMKNMAKGESELMGEVATDWMDE
CPEAKRLKVEEPGMGAEAVDCRQWTQHHLVAADIRVAPAMALTPPQGDADADGMDVNVRGPDGFTPLMLASFCG
GALEPMPTEEDEADDTSASIISDLICQGAQLGARTDRTGETALHLAARYARADAKRLLDAGADTNAQDHSGRTP
LHTAVTADAQGVFQILIRNRSTDLDARMADGSTALILAARLAVEGMVEELIASHAVNAVDELGKSALHWAAAVN
NVEATLALLKNGANKDMQDSKEETPLFLAAREGSYEAAKLLLDHFANREI

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FIGURE 675

AGGAAATGGTTCTGGAAAACGTTAGTAAGGTAGTTTAAACACTGAATCCAAGGTTGCTTCTGGAATATCC
 AAATTGGTTATGACCAGAATGTGATTCAATTATACTAAGCTAAAGGAATAGATTAAGAATTAGCAACAGTGGCCG
 GGTGCAGTGGCTCATGCCTGTAACCCCAGCACTTGGGGAGGCCAGGTGGGTGGATCATTGAGGTCAAGGAGT
 TTGAGACCAGCCTGGCCAACATGGTAAACCTAAAAATACAAAATTAGCCAGGTGGTGGCAGGTGTTGTAAC
 TCCCAGCTGCTTGGGAGGCTGAAGCAGGAGAATTGCTGAACCCGGAGGCAGGGGTTGCAGTGAGCCAAGATCAC
 ACCATTGCACCTCCAGCCTGGGTGGCAGAGTGAGACTCTGTCTCAAAATTAAAAGCAACAGTGTATATGCAATA
 GTTGCAGAGATGTAAGATCACCCAAAGAGTATGCAGAGGGAAATGAGGGACAGAACCCAGAAATATTAATACCCAG
 GGAGTGAACAGGAGGAGGACCCAGAGAAGTTACTGAGTCAGATTTTCCACTCATCCAGGTGAAAGTTAGGTC
 AATAATGTGAAATACAGAGGGATTAAATGTCTACAGAAATAAAACCATGTCACATTAAGACAAACAAGTAGG
 TTGGAGGGATATTTGAAAGGCAAGGTGATATTAAACCTTATTCTGAAAGTAGTTGTTAGAGAAAGAGGCATG
 TAAGAGTTGCACTGATTGAAACTATGCAGCAGATGAAACTGGAATAAGGAAACTCATCAGGAAATGAT
 TATAGTAATAAGGCCAGAAATAAGGGCTGCTTGCTGAACATAAAACAAAGAGGATACAAAGGTTAGAAAT
 ATTTCAAAGGAATTAGCTTAAATTCAAGCAATACTCATTGAGAATCACCTATGCACCTGGCTCTGAAGATGAAGTG
 CTGAGTAAACTTAGACATGGACCTGCTATCATGGAGATGGCAGATTATTGGTCAGATGCTCTACCTGTCATT
 GTAGCAATTGTTAGATCCTAATACCTCTGAATTGCTAATAAAACTTGTGTTGGCTGAAAAAAATAGCCTGTGA
 ATTTTACCATGCACTTAAATAAGAAACTAAAGCAAACCTAAATACCACCAAAAGGTTAGTAGTCTGTTATATG
 CATTAGCCTTAATCTAAGGAAATATTTATTATAGGTCTCCTGAAAGAAAATGATATTCAGGAATGCTCAAGC
 AGGTGTTCTCATCAGCACTAATAGTCATCCAATCTAAGGAAAACAGAAATATTGATGGATTGCCGAGGTAT
 TGAAATTACAAATCACGCAACTGCAACACTAGAAGGCAATCAGATTTAACACCGGTTGGAGGCTTATTTT
 AGCATCTGGTGTAAATGTGACAATGAAAGATAACAAAATAATGAACAAATCAAGATGCCATAGAAAAGGCTGTTAG
 TAGAGGCCATGTTATATAAAATCAAGTTATCCAGCTATGCTGATTCTACAGATGTCTACACTTG
 TAACACACAGATCGAAATGCCATATGTGTAACTGCATTAAGAAGTGCCTACAGGGACATGATGTAGAGTTAT
 TAGACATGATAGGTATGTAGCACACTTGCTGATATATTACCAATTACTTCCCCCTCACTTTCTAATATTTG
 GGTTTCATTTGCTTAGGTTCTGTGACTGTGGTGTGAAACACTGTCTAACCTGTACATTAGCTGGTGA
 GCCTACACATGATAAGATAACTATGACTCTGCTCCACCTATAGAATCTAACATTGAGCACAACTG
 TCCTTCCCTAAAGAAAAGTCTGCCATTGTAACATCATAACTTAAACACTTTTGGAAAGAAGATTAAATA
 TTTGCCCATGCTACAGGAAGAGACTGTATTAAAGGATACACAAGGTCAGTTGACACTATGAAGCTCAAGCTA
 CCAAAAGAAAGTGGCAATATATTGACTCAGGATCTAAAGCTGGGTGTTAGCATTACTGTGAAAGACTTG
 AGGGACAGAAGTGAAGAAAATAAGCTGCAATTGTCAGACATACCAACTTCTGAAAGCTGGTGTGTTACA
 AGCATTGAATGCAGTCAATTGCACTGAGTAGTAATCTCAATAGACAAGCAGCTTGTGCTGCCCTTATGGACATG
 GGTACCAATTGCTTGTAAATGGTAAAATGTGAGCTAGCACTCTGCGTCCCTTGATTTTTTAA
 CATGTATTGAGAAATATGATTAAATGCTTAATCTCATGTAGTTGTTTAATTCAAGCAAAATCT
 TACTGTACTTGAATGTGCCCTGTTGTTAGCACACCTAGACTTGTGTAACTGTACTCATGCTCCAGTATGTAC
 GTTCTTCTATGAAAGAGAAAACACTAATCTAAATTATCCAGCAATGTTCTGGTATCTTAAAGAAAAGTT
 AAGACTATTATTCCTCCCTGTGCAGCATTCAAAATCACCCCTAGAAAAAGTGAGTGTGTTAATGAGA
 CTTCCCTAGGAAGGGATGCACTGTAACAAAAGTATTCTGTAACTCAGTTGTGAAAGGTAAAAACTACTAT
 GTTTTAAGTACACTTAGAAAGTCTCTCAAAACAAACAGTCCTGTATTGAACTCTGTCATAGTTTTTG
 AACAGTTAGACAAAAGTGTGAAATTAAACCAATTCTGCAATTAGCTGAGACAAGTATATAACAGCCCTA
 TACAGTTCATAGCTTCCCTCCCTTATGTGATTGGTACAGTGGTATAAAACAGCTGAAAGTGTATG
 CATGTACATAACATTAGCTTAATATATTGTGGAGTATTCAATAACCATTATGTAGAAGGTAGATAAGAATTA
 AAAGGGTTAATTCTAGAAAGAAAATGGAAATGGTCAATTAAAGTTAAAGTTATTAGATCATAATGT
 TGTCTGAATTACACCTTGTGCAAGTCACACTCAAAGCTTCAATGTAAGTCAGTCTATAATTCTTAATCAA
 GTCAAGCAATTGAGCAGCTCAGCATTACAGTTGACCTTCACTAGCCAGGCAAACCTCCCTAAATTAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 676

MKDQNIMNNQDAIEKAVSRGQCLYKISSYTSYPMHDFYRCHTCNTTDRNAICVNCIKKCHQGHDVEFIRHDRYVA
HLLDILPNYFPPHFSNIWVSFCFRFFCDCGAGTLSNPCTLAGEPTHDTDTLYDSAPPIESNTLQHN

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FIGURE 677

GAATTGCCCTCG**ATGGC**TTATCCGAAGAAGCAGCAGGAGCAGCAGCTGCAGCTACTCCAAGGAGAGATT
 TCCTTGCTGCTGCTTA**CTT**ACTGGAGGAGTACTACTTGAACAGCATAGAGCAATCACATTGCACAAGGGCAGT
 CACCATGAAAGGAAAATCAGAGGCTCCTAAAAATGTTCAAATCGGTATTTGAACCAGATTCAATATCC
 CAGCCCACATCATCAAGATTCCCTTGAGAGACTGTATAAAAATAGGAAAGCATGGAGAAAATGGAGCCAATAGACAC
 TTCACAAAGGCAAATCTGGGGTATTCACTCATTTCAGTCAGGTATATTCACTAAAGAACATAATGTTGTT
 GCACCATATAAAATAGAAAGGGCAAATGGAATATGTTGAATTGGATGTCGGGAAAGTGGAAAGATGTT
 GTGGAGACGTTGCTTCAGCTCACAGAGCATCCTGCCTGACAAATTGGGTGACCAAACCGCCATGATAACAGCT
 ATTTGCAGTCTCGTTAGCTAGAACATCATTGACAAAACAGGTTCCAAACATTCTGAAAAGCTGCACATG
 GAATGCAAAGCAGAAATGGTACGCCTGTTGACTAATCCTGGACACGTGTCATCACGGACACAAACCTGTAT
 TTTCAGCCCCCTCAACGGCTACCCGAAACCTGTGGTCCAGATAACACTCCAAGATGTCGCCGATCTACAAAAGG
 AGGCACGGCCTCATGCCTCTGGGCTTGAAGTATTGACAGAAGATGATCTGTTCCGACATCTACCTAAAG
 TTCTATGAACCTCAAGATAGAGATGATCTATTTCACATTGCCACATACCTAGAGCACCAGTGGGGAGCAC
 ACTGCTGAGAGCTACATGCTGCACTGGCAGCGTGGACACCTTCCAACATCAGTACCTCCTTCACCTCAACAAAC
 CTGGCCGACCGCAGCTGCAACGACCTCTCCAGTACCTGTGTTCCATGGATAATACATGATTATTCCAGCTCA
 GAACTAGATTGTCATCCAGGAACCTTCCGGATCTCAGTAAGCCAGTAGGGGCCCTAAATAAGGAACGGCTG
 GAGAGACTACTGACACGCTACCCAGGAAATGCCTGAACCAAAGTTCATGTATGGAGTCAGTACTCTTCCCCGGGT
 TATGTACTTTTATCTGTTAGGATTGACCCAGAGTATATGCTGTCGCTGCAGAATGGAAGATTGATAATGCA
 GATAGAATGTTCAACAGTATTGACAGAAACTTGGAAAATGTCTGGATGGTCAACGGATTAAAGAGTTAATT
 CCAGAATTCTATGGTGTGAGCTTCTAGTCATAGCCTGAAGTGGATTGGAAAGAGACAAGGAGGA
 CAGATGGTTGACGACGTGGAGCTTCCCCCTGGGCTTCCAGTCCCGAGGACTTCTCCAGAAGAGCAAAGATGCA
 TTGGAAAGCAATTATGTCGAAACACCTTCACGAGTGGATTGATCTAATATTGGCTACAAACAAAAGGGAGT
 GATGCAGTTGGGGCCCATAATGTATTTCATCCCCGACCTATGAAGGAGGTGTAAGCTGAACAGCATCCAGGAT
 CCTGATGAGAAGGTAGCCATGCTTACGCAAATCTGGAATTGGCAGACACCAAAACAACATTGTCACACCA
 CATCCTCGAAGGATCACCCAAAGTTAAAGTTGTCAGACCTCCAGTTATAATGCTTCTATGGCAGATTCC
 CCAGGTGAAGAGTCTTGAAGACCTGACCGAAGAAAGCAAAACACTGGCCTGGAATAACATCACCAAACGTGAG
 TTACACGAGCACTATAAATCCACAAAGCAGTTACTGGAATCACGGTCTCGCAATGGATCTCAGTATT
 ACAACATCCCAAGATTCCACCTGAAAGATGTTCTAAAGAATCAAAGAAGTATATCATTTC
 AATATGGCTTATCGTCTTACTTTACCAAGGAGATGCCACTGTCATAACTCTTCATGGATAATAATGTC
 TATTTTATTCCATAGCATTGGAAGACGCCAGGACACGTTAATGGACATGATGATGCTGTTAGTAAGATCTG
 TGGCATGACAACAGGCTATATTCTGCATCGTGGACTCTACAGTGAAGGTGTTGCTGGTCTGAGAGATG
 CCAGGCACCAAAGACACCACCTTGACTTGCTGGCGAGCTGGAACATGATGTCAGTGTAGATAACATGTTA
 AATGTCGAAGCACA
 TTGTTCCGGCACAAAGAAGGCACAGTGAATATTGGACCTCACAACGGCCACC
 TTAATGCA
 ACCAGGAAACAGATGGCTTAAATGTCATTGATGTGCAAGACAGGAATGCTCATCTCCTCCATGACATCAGAT
 GAGCCCCAGACGTGCTTGTCTGGGATGGAAATTCCGTTATCTGGCAGTCAGTCTGGTGAAC
 TGCTCGTTGG
 GACCTCTGGAGCAAAATCAGTGAGAGAATACAGGCCACACAGGTGCTGTGACATGATATGGATGAATGAA
 CAGTGTAGCAGTATCATCACAGGAGGGAAAGACAGACAAATTATATTGGAATTGCACTTAAAGTGCAGTAT**TAAG**TGCTT
 CCTCTCTGAATATTAAATTGAACTCTATTAAATGCAATTAAACCAAAC
 TTGGAATTGCACTGGTGAAC
 AATGTTAGTAATTAGAAGTTACCA
 CATGGAAAATTGTTGCTTAAAC
 ATTCTAAATCATGGTACCTCATTG
 AAAGCCATTAGTGCCTTACGGCAGATAAAATGCCAGTGTGTTAGGAAACATGTTACACTGTAAGGC
 AGATGATCGTCCCCGTATGATGATTGTCAGAAGACAGGACTAAGTAGCAGAGAATAGCTAAGAGATAATTGGC
 TGGGAAACTGTCAGAAAGCACTGAACAATTAGAAATTTCAGGAAATGTCAGTATTCTGCTACTT
 GAATCTGTTTGTCTCTTAATCTATCACAATTGCCACCCATGGGTTGGGTGTTGTTCATAGCGTGGTT
 ACTTTCTATAATGCTGTACCCAGATTCTAAGAACCTGGAGAAGGATTAGCAGTTCTAGTAAGTTACTGTT
 AGGAACGGTTGTATTCAATTACAGCTATTCACTTTCTACATTAAAAATATTCTCTAAAAAAAAAAAA
 AAAAAA

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FIGURE 678

MAFIRKKQQEQQLQLYSKERFSLLLLNLEEEYYFEQHRANHILHKGSHERKIRGSLKICSKSVIFEPDSISQPII
KIPLRDCIKIGKHGENGANRHFTAKSGGISLIFSQVYFIKEHNVVAPYKIERGKMEYVFELDVPGVVEDVVEL
LQLHRASCLDKLGDTAMITAILQSRLARTSFDRKNRFQNISEKLHMECKAEMVTPLVTNPGHVCITDTNLYFQPL
NGYPKPVVQITLQDVRRRIYKRRHGLMPLGLEVFCTEDDLCSDIYLKFYEPQDRDDLYFYIATYLEHHVAEHTAES
YMLQWQRGHLNSNYQYLLHLNNLADRSCNDLSQYPVFPWIIDYSSSELDLSNPGTFRDLSKPGALNKERLERLL
TRYQEMPEPKFMGYSHYSSPGYVLFYLVRIAPEYMLCLQNGRFDNADRMFNSIAETWKNCLDGATDFKELIPEFY
GDDVSFLVNSLKLDLGKRQGGQMVDVFLPPASSPEDFLQKSKALESNYVSEHLHEWIDLIFGYKQKGSDAVG
AHNVFHPLTYEGGVDLNSIQDPDEKVAMLQILEFGQTPKQLFVTPHPRRITPKFKSLSQTSSYNASMADSPGEE
SFEDLTEESKTLAWNNITKLQLHEHYKIHKEAVTGITVSRNGSSVFTSQDSTLKMFSKESKMLQRSISFSNMAL
SSCLLLEPGDATVITSSWDNNVYFYSIAFGRRQDTLMGHDDAVSKICWHDNRLYSASWDSTVKVWSGVPAEMPGTK
RHHFDLLAELEHDVSVDTISLNAASTLLVSGTKEGTVINIWDLTTATLMHQIPCHSGIVCDTAFSPDSRHVLSTGT
DGCLNVIDVQTGMLISSMTSDEPQTCFVWDGNSVLSGSQSGELLVWDLLGAKISERIQGHTGAVTCIWMNEQCSS
IITGGEDRQIIFWKLQY

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FIGURE 679

ACTTCCCCGGCTCCAGCCGGCGCAGGCAGCGGGCGGAGCAGCAGGCAGGCGAGCAGCAGGCGAGCCTCGGCCCGCAAGGCCATGAAGG
TGAAGAAGGGCGCGGTGGGCCGGACGGCGACGGAGTCGCTCCGGGCCCTCGGCCAGAGCGTGGCCCCA
TACCACAGCCGCTCGGAATCGAATCTGGTCCGAGTCGGAGGCCAGGCCAGGCCAGGCCGGGGC
CGCTGCAGAGGAAGCAGCGATCGGCCGGAGGACGTGCTGGGCTGCAGCGGATCACCGGTGACTACCTCTGCT
CCCCTGAGGAGAATATCTACAAGATCGACTTTGTCAAGGTTAACGATTGGGACATGGACTCAGGCAGTGCCTCT
TTGAAATCAAGAAGCCCCAGTCTCAGAACGGTTGCCATCAACCGGCCGGACCTGGACCCCAATGCTGGCGCT
TTGTCCGCTACCAGTTCACGCCCTGCCCTCCGCCCTGAGGCAGGTGGGAGCCACGGTGGAGTTCACAGTGGGAG
ACAAGCCTGTCAACAACCTCCGATGATCGAGAGGCACTACTTCCGCAACCAGCTACTCAAAGCTTGACTTCC
ACTTTGGCTTCTGCATCCCCAGCAGCAAGAACACTGCGAGCACATTACGACTTCCCCCTCTCCGAGGAGC
TGATCAGCGAGATGATCCGCCACCCGTATGAGACCCAGTCTGACAGCTTCACTTCGTGGATGACCGGCTGGTGA
TGCACAATAAAGCAGACTATTCTACAGCGGGACACCCTGACCCCCACGGCTGCCCTGACCCAGGAGGCTCCAGT
TCTGGGCTGGGAGCTGTGACCTCCCCAACGCTCACCCCTCAACCCCAAGTCCTCTGCTTGGGAGTTCTCCAGGA
GCTCCGGACCTGAGTCATGTTGGGAGGAAGGGTACCTGGTGTCCCCAGTCAGCCCATGAAGGCCATGCGGCC
TGCTACATGGGTGGGTCGTAGGGAGGCTGTTGCCCTCACGTCTAGGAAGGCTGTGAGAGGAGCAGTCAGGA
CTTCCGGACAACCTAGCTGGGCCCTACTTGGGCCCAAGTTCAAGAATAGTGTCCCCATCAAGGCTGTGACTAG
ATCAGGCAGGGATCCATTCCCTGTCCCCCTGCCCACTACCTTCAGGCCATTAGAGTTGTAATTACAAAGATCC
ACGGTGGGCTCCAGCTGCCAAGCCACCAAGGGAGTCTGGGCCCTAGGCCTAGCCCCATCCCTCCCCATGAGGGG
CCAAGACACTGCCTAAGGTGGGAGGGACTGGCTGAGATTGCAAGGCCATGGTAGGAGCTGGACCAACTGTATAT
AGTTTCAATAAACCTTTCTTTCTGTTCAAAAAAAAAAAAAAA

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FIGURE 680

MKVKKGGGGAGTATESAPGPSGOSVAPIPOPPAESESSESGSESEPDAAGPGPRPGPLQRKQPIGPEDVLGLQRITGDY
LCSPEENIYKIDFVRFKIRDMDSGTVLFIEIKKPPVSERLPINRRDLDPNAGRfvRYQFTP AFLRLRQVGATVEFT
VGDKPVNNFRMIERHYFRNQLLKSFDHFGFCIPSSKNTCEHIYDFPPLSEELISEMIRHPYETQSDSFYFVDDR
LVMHNKADYSYSGTP

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FIGURE 682

MATATPVPPRMGSRAGGPTTPLSPTRLSRLQEKEELRELNDRLAVYIDKVRSLTENSALQLQVTEREEVRGREL
TGLKALYETELADARRALDDTARERAKLQIELGKCKAEHDQLLLNYAKKESDLN_{GAQIKLREYEALNSKDAALA}
TALGDKKSLEGDLEDLKQIAQLEASLAAKKQLADETLLKVDLENRCQSLTEDLEFRKSMYEEEINETRRKHET
RLVEVDSGRQIEYEYKLAQALHEMREQHDAQVRLYKEELEQTYHAKLENARLSSEMTSTVNSAREELMESRMRI
ESLSSQLSNLQKESRACLERIQELEDL_{LAKE}KDN_{SRRMLTD}KEREMAEIRDQMQQQLNDYEQLLDVKLALDMEIS
AYRK_LLEGEER_{ER}KLSPSPSSRVTSRASSSR_VRTTRGKR_RKRV_DV_EESEASSSV_ISHSASATGN_CIEEIDVD
GKFIRLKNTSEQDQPMGGWEMIRKIGDT_SVSYKY_TSRYVLKAGQT_VTIWAANAGVTASP_PTD_LIWK_NQNSWGTGE
DVKVILKNSQGEEVAQRSTVF_KT_TIPEEEEEEEAAGVVVEELFHQQGT_PRASNRSCAIM

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FIGURE 683A

GGTGAATGGGCTGGTGGTGCTCGCTGCTGCTGAGAGGAGGAGGAGGATGAAGAGTTGGGCTTGTTCCTCC
TCCTCCTCTGCTTCCCCTGCTCAGAGTTCTGCCAGCTGCCAGGGGGACAGCCAGCAGCAGCAGGAGGG
GGGCTAGAGAGCTGAAGGAGAGCCAGTTCCCCAAAATTGGACTCTCAGAACCTTAATATGCTAATGTGCATT
GTGAATCTCCAAGAGGGGGATATGATATGCAGCATTCTGAATACTTCAATGACAGGGAGGCCACTACCTCATA
AGCTGCAGTGAGAAAGAGGAGTTGTTACTTTAACAGAGGCTGAAGAAACTATAGAATTAGCAGAGAAAGTGGAG
AAGGTAGAGG**A**TGGAGTTGCAGACTCTACAGGAGGCTTTAAAGTGGAAATTCAAGGTTCACAGAAAATGGTTGC
TCAAATGAAGCAGGATCCACAGAATGCTGACTTAAAGAAACAGCTTCAAGCCAAAATCAGCTT
GAGTGAGAAACAGAAAAGAGTAGTTGAACAGCTACGGAAAGAACCTGATAGTAAAGCAAGAACACCAGACAAGTT
CCAAATACAGCCATTGCCACAATCTGAAAACAAACTACAAACAGCACAGCAGCAACCAACTACAGCAACTACAACA
ACAGCAGCAGTACCAACCACCACGCCAGCAGTCAGCTGCAGCCTCTCCAACCTGACTGCTTCACAGAAGAC
TGTAACTACAGCTTCTATGATTACCAACAAAGACACTACCTCTCGTCTTGAAGCAGCAACTGCGACCATGCCTG
CTCTGTGGTGGGCCAGAGACCTACATTGCTATGGTGACGCCATCAACAGTCAGAAGGCTGTGCTCAGCACTGA
TGTGAGAACACACAGTCACCTCCAGACGTCTAGTAAGGTCACTGGGCTGGGAGGGCTGTCAAATTG
GGCAAAAAACACAGTCACCTCGCAGGCAACACCTCCTCAGCCATCAAAGTACCAAGCTTATCCCC
TCCTAGACTCACTCCACGTCAAACCTTCTCCACAGGTTGACCCAAAGCTGTGGCCAGAATAACATTCTAT
TGCCCCAGCACCACCTCCCAGTCAGGCAACACCTCCTCAGCTTATCCAGAGGCCGTACAGCTGACCAAGTTCACCCCC
CACAACCCTCCCACATCCCAGAATTCCATCCACCCCGTCCGTGTCATGGCAGACTGCAACCATAGCCAA
AACGTTCCCAGGCCAGCTCACCAAGCATTGTGATAGCTACTCCAGGGACCAGACTCGCTGGACCTCAAACAGT
ACAGCTTAGCAAGCCAAGTCTTGAACACAGACAGTTAAATCTCACACAGAAACAGATGAGAAACAAACAGAG
CCACACCACATCCCCACCTGTCACCCAAACCAAAACGGGAGGAGAACCTCAGAAACTGCTTCATGGTG
TCTAGGGTTGTAACACATGACCATCTAGAAGAAATCCAAAGCAAGAGGCAAGAGCAGAAAGAACAACAGC
AAATCCGGTCTACAGTGGAGCAGTCAGTTGAGCCAGAGCAGTAAGAAGAGTCAGTGACATACCTAAACAGCACAAT
GCACCCCTGGGACCCCGAAGAGAGCCAATGAGGAACACTGGCCAAGGGTATTCATGAGGATTTCAGCG
TTGCAGAAAAAGTGGCCAGTTACTGATGTGCGACACGTGTTCCGTGATATCATTGGACTGCTTAGACCCCC
TCTGAAAACAATTCCAAGGGCATGTGGATCTGTCCAGATGTGAGCAGATGCTGAAGAAGGAAGAAGCAAT
TCCATGGCCTGGAACTTAGCAATTGTCATTCTATATTGCCCTACAAAGCAGAAAAGAAGAGAAACAGAA
GTTACTTAAATGGAGTTGAGATTAAACAAAGAACGAGAAACTAGAGCAAAAGGTGAAACAGCTCAGCAATT
CATAGTAAATGCATGGAAATGAAGAACACCACCTGGCCCGGCAGAAGGGAGATGCACAGCTCCCTGGAGAAGGT
AAAACAGCTGATTGCGCTCATCCACGGCATCGACCTCTCCAAACCTGTAGACTCTGAGGCCACTGTGGGGCCAT
CTCCAATGGCCCGACTGCACCCCCCTGCCATGCCACCTCCACGCCGGCCCTTCCCTCCAGAG
CTGCACAGCGAAGTGAACCAGGGGAAGAGACTAATAACAGAGCCCTCTAGGAGAAGCCACGGGATCCCG
GGCAAGGAGAACAGAACACTGAAGACTCTAGAAAAGCAAAGCCGGATTCTGAGAAGTGCAGAATTCTTGGTT
CTTGGTCCAGAGAGAGAGAGATGCTTGCCAGGTGGCACCAGAGTTGCCAATTGATCCTCTTATTCTGT
GTGTACATGCAAAGATTGGACCATGTTACATGAAATAGTGCAGCTGGAGGTCTTGCCAGCACCAGCCAAAGT
GAAATAATATATTACTCTCTATTACACCAAGTGTGTGCCCTGCAGCAGCCTCCACAGCCACGATGGTTG
TTCTGTTTCTGGTGGGGAGCAGGGACGGCGGGAGGGAGAGCAGGTTCTAGATCCTACTTGCCAGGCC
TTGTTTAGGTAGAGAACAGTCCAAAGAGACTGTGTGGGCTTCTGTTCTAAACTTCGCTACTATAAAACC
AAAAAAAGGAATTGAGATTCCACCAACCCAGTGCCAGAAGAGGGAGGGAGTGGCTGGAGGGAGCAGGGGGT
GGGACAGTGTATCAAATAAGCAGTATTAAATCACCTCTGGGGGGCCCTGTGCAAGGGAGACTGACACCAAGA
ACAGCCAGTAGGTTCTCTCCCTGCACTCTGCTCCCTGCCGCGTAACCCACCACTCCTGAAGCCTGCCAGTC
TCCTCCCTCCCTGCTTGGTAGTCAGTCGCATCTCCGTGGTATCCGCTGTCTCTCCAAAGAACAGCAGAGC
CCGGGCCACTGGCCCTGCCAAGGCAGGGAGAAGGGAGATGTGTGCCAGGAAGGAAAAAAAGGTGGATCAGTG
ATTTACTTGAAAACAAGCTCCATCCCTTTCTATATTATAAGAAGAGAAGATCTGAGTGAAGCAGCACCGA
CCCAGGTGTGTGAATTGAATGGAGACGTTCTTCTCTTTCTTTAATTTGTTCTTTCTTTCTTT
AAGGAAAGTTTATTACTGTTCAATTACTTCTTGTGTAACAAAACAAACTAAAGGAATAGAAAAGCTGTT
TTCAGGCTGACAGTCCAATTAGGGTAGCCAAGACCTTGCACTGGTAGAGTAGGAATCATAGTGTCA
CGTAGTCTTGTGAGTCCTGTGTCATCGTCCGGCACTGTTTTATGCAAGGGCAAAATCTTGTATCTG
GGGAAAAAAACTTTTAAATTAAAAGGAAAATAAGATATTGAGGTCTCCTAGTGTACTTAAATTAA

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FIGURE 683B

GATCAAGGTAAGAACATTGTAAAAAAAAATTACAAAAGTGCTATTTGTTCTAAAAACAGTGATTCTATTAA
AAAGGTGTCAGAACTGG

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FIGURE 684

MELQTLQEALKVEIQVHQKLVAQMKQDPQNADLKKQLHELOAKITALSEKQKRVVEQLRKNLIVKQEOPDKFQIQ
PLPQSENKLQTAQQQPLQQLQQQQYHHHHAQQSAAASPNTASQKTVTTASMITTKTLPLVLKAATATMPASVV
GQRPTIAMVTAINSQKAVLSTDVQNTPVNLQTSSKVTGPGAEAVQIVAKNTVTLQVQATPPQPIKVPQFIPPPRL
TPRPNFLPQVRPKPVAQNNIPIAPAPPMLAAPQLIQRPVMLTKFTPTTLPTSQNSIHPVRRVNGQTATIAKTFP
MAQLTSIVIATPGTRLAGPQTQVQLSKPSLEKQTVKSHTETDEKQTESHTITPPAAPPKREENPQKLA FMVSLGL
VTHDHLEEIQSKRQERKRRTTANPVYSGAVFEPERKKSAYTLYNSTMHPGTRKRANEHHWPKGDIHEDFCSCRK
SGQLLMCDTCRSVYHLDCLDPLKTIPKGMWICPRCQDQMLKKEEAIPWPGTLAIVHSYIAYKAAKEEKKQKLLK
WSSDLKQEREQLEQKVVKQLSNSISKCMEMKNTILARQKEMHSSLEKVKQLIRLIHGIDLSPVDSEATVGAISNG
PDCTPPANAATSTPAPS PSSQSCTANCNQGEETK

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FIGURE 685

GTCCCAGCTAGAGCTCCAGGCCCGCTCAGGCCCACTCGACCCCTCGGGCTCGGCTACTTGGACTGCAGCGGG
AATATGGCGGCTCGATGACTCCCAGCGCTCGGCCGAGGACTACGAGGCGCGCTCAATGCCGCCCTGGCTGAC
GTGCCGAACTGGCCAGACTCCTGGAGATCGACCCGTACTTGAAGCCCTACGCCGTGGACTCCAGCGCAGGTAT
AAGCAGTTAGCCAAATTGAGAACATTGGAGAAAATGAAGGTGGTATTGATAAGTTCCAGAGGCTATGAA
TCATTTGGCGTCCACAGATGTGCTATGGTTTATACTCCAAGAATGGCCCCGGAGCAGAAGGAGTTTT
CTTACTGGAGATTTAATGGTGAATCCATTTCGTACCCATACAAAAAAACTGGATTATGAAAGATGGAGCTG
TATATCCACCAAAGCAGAATAAATCTGACTCGCCTCATGGATCAAATTAAAGGTAGTTATTACTAGTAAA
AGCGGAGAGATCTGTATCGTATTCACCGTGGCAAAGTATGTGGTGTGAAGGTGATAATGTGAATTATGAT
TGGATAACACTGGGATCCAGAACACTCATATGAGTTAAGCATTCCAGACAAAGAACGCCACGGAGTCTAAGAATT
TATGAATCTCATGTGGAATTTCTCCATGAAGGAAAGTAGCTTCTTATAAACATTACATGCAATGTACTA
CCAAGAATCAAAGGCCTGGATACAACTGCATTCACTAGTTGATGGCAATCATGGAGCATGCTTACTATGCCAGCTT
GGTACCAAATCACAAGCTTGCAGCTCCAGCCATTGGAACACCTGAAGAGCTACAAGAACTGGTAGAC
ACAGCTCATTCCATGGGTATCATAGCTCTTAGATGTGGTACACAGCCATGCTCAAAAATTCAGCAGATGGA
TTGAATATGTTGATGGACAGATTCTGTTATTTCATTCTGGACCTAGAGGGACTCATGATCTTGGGATAGC
AGATTGTTGCCTACTCCAGCTGGGAAGTTIAAGATTCTCTGTCAAACATAAGATGGGGITGGAAAGAATAT
CGCTTGATGGATTCGTTGATGGTGTACGTTGCTTATCATCACCATGGAGTGGTCAAGGTTCTCA
GGTATTACAGTGAATATTCGGACTACAAGTAGATGAAGATGCCTGACTTACCTCATGTTGGCAAATCATTG
GTTCACACGCTGTGCCGATTCTATAACAATAGCTGAGGATGTACAGGAATGCCAGCTGTGCTCTCCAATT
TCCCAGGGAGGGGTGGTTGACTATCGACTAGCCATGGCAATTCCAGATAAGTGGATTCAGCTACTAAAGAG
TTAAAGATGAAGACTGGAACATGGCGATATAGTATACACGCTCACAAACAGGCGCTACCTTGAAGATGCA
GCTTATGCAGAGAGCCATGATCAGGCATTGGTGGGATAAGTCGCTGGCATTTGGTGTGGATGCCAATG
TATACAAACATGAGTGTCTGACTCCTTACTCCAGTTATTGATCGTGAATACAGCTCATAAAATGATTGA
CTCATTACGCATGGCTGGAGAAGGCTATCTCAATTTCATGGTAATGAATTGGCATCCTGAATGGTTA
GACTTCCAAAGAAAAGGAAATAATGAGAGTACCAATTGCCCAGGCAGTTCACTGACGACGACCTT
CTCGCTACAGTCCCTAAATAATTGACAGGGATATGAATAGATTGGAAGAAAGATATGGTGGCTGAGCT
CCACAGGCCTACGTGAGTAAAAACATGAAGGCAATAAGATCATTGCTTTGAAGAGCAGGTCTTTCATT
TTCAACTCCATCCAAGCAAGAGCTACACTGACTACCGAGTTGGAACAGCATTGCCAGGGAAATTCAAAATTGTG
CTAGATTCAGATGCAGCGGAATATGGAGGGCATCAGAGACTGGACCACAGCACTGACTTTCTGAGGCTTT
GAACATAATGGCGCCATTCTCTTGGTACATTCCAAGCAGAGTGGCCCTCATCCTCAGAATGTGGAT
CTGCCGAATTGAAGAGGCCTGATTTCAGCTCCACCAAGATGCAGATTGTGTTTCTGTTATCACTGTCA
CACAGCTTATAACATGTATGCTTCAAGAACACAGTTGTCTAGCCAAGCCATCAAGTGTCTGAAATTCAATATTG
GTTTATGCAAATACAGCAAACTTTATTAAAGTAGATAGGAGAATATGTTAAATATTAGGAATCCTAGACCAT
ATTTCAAGTCATCTTAGCAGCTAGGATTCTCAAATGGAAGTGTATATATAATATGTTAAACATTGCTT
CCTGGCTAATTATTGATCCTTAAATCCAATTGAAATCATTTGTATGTATGATTATTCTGTTAAATGTAC
ACAGTATTAAAGATGGATATTGGTGGCTTATTGTTCTGATATCTTGGCTAAATTATGAGGTACCAAGAT
TGTTCTTGTTCTTCAAAATTGTTAGAAATACTGTAATAAATATGAGTAGTGTATATAAGAATT
TATCCAAGGTAATATAAAAGCCATTACGTATGAACACTCATCCGTGTCTATTGTTGTTTATTGATCTCTT
GTCCACTAAGTATCTGTTAAATGCCAGTATCTCAGTCTTCTGAAGGCCCTGAAATGGTAATTGTAGCATT
AAAAATGTCTTCATTCAATCAATAAAAGCTTGTAAAAAAAAAAAAAA

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FIGURE 686

MAAPMTPAARPEDYEAAALNAALADVPELARLLEIDPYLKPYAVDFQRRYKQFSQILKNIGENEGBGIDKFSRGYES
FGVHRCADGGLYSKEWAPGAEGVFLTGDFNGWNPFSSPYKKLDYGKWELYIPPKQNKSVLVPHGSKLKVVITSKS
GEILYRISPWAKYVVREGDNVNYDWIHWDPPEHSYEFKHSRPKKPRSLRIYESHVGISSHEGVASYKHFTCNVLP
RIKGLGYNCIQLMAIMEHAYYASFGYQITSFFAASSRYGTPEELQELVDTAHSMGIIIVLLDVVHSHASKNSADGL
NMFDGTDSCYFHSGPGRGTHDLWDSRLFAYSSWEVRLFLLSNIRWWLEEYRFDGFRFDGVTSMYHHHGVGQGFSG
DYSEYFGLQVDEDALTYLMLANHLVHTLCPDSITIAEDVSGMPALCSPISQGGGGFDYRLAMAIPDKWIQLLKEF
KDEDWNMGDIVYTLTNRRYLEKCIAYAESHQALVGDKSLAFWLMDAEMYTNMSVLTFTPVIDRGIQQLHKMIRL
ITHGLGGEGLNFMGNFGHPEWLDFFRKGNNESYHYARRQFHLTDDDLLRYKFLNNFDRDMNRLEERYGWLAAP
QAYVSEKHEGNKIIAFTERAGLLFIFNFHPSKSYTDRVGTALPGKFKIVLDSAAEYGGHQRLDHSTDFFSEAFE
HNGRPYSLLVYIPSRAVALILQNVDLPN

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FIGURE 687

CTCTCCCTCAGCGATGGACAGGGGCTTCCCCTCGCGCCGCGTCGCGGCGCAAGTCGCGGCCGGTCTGCG
GCCTATTGCGAGTTATGTGCTTTTAGTCGTAGGGAAAGCTTCGACTGAAAAATGGTATGTCCTACTATCAG
ACAAGAGAAGAAAAGATCACAGAGAACTTGTTCAGACGGTTAGCACGGAAACCTAAATGTGAGCTTCC
TTGAGTGGCGAGACTGAAGATTGTTACAAAAGATATGCTAGTCTGTATTTTGCTGTGCTATTGAGGATCAGG
ACAATGAACATAATTACCCCTGGAAATAATTCATCGTTATGTGGAATTACTTGACAGTATTGCGCAGTGTCTGTG
AACTAGATATCATCTTAATTTGAGAAGGCTATTTTATTTGGATGAGTTCTTGGAGGGGAAGTCAGG
AACATCCAAGAAAATGTCTTAAAGCAATTGAGCAGGGTGTACTGCAGGAGGAGGAAGCTGAAACCCCCAC
GTAGTGTCTTGAAGAAATTGGACTGACATAACTCCTCCCTGTTGATGACTTCTGGCATTCACACACT
GTAGATGGTCACTCCCTCATTGTCATTGTTAGCTCATGGTGTAAAGATGATGTCAGTATTACTGTTTG
CTAAGCCGCTTCATTCATGCCTACACAATTTTTAAAGGGAACTTAGTTAGTTAATTAAAGTGTAAAGGGACTTA
AATATGAATTAGAATGGTGAGAAAGAGATACTTTCTGGATATTAAAGTTAAAGGTCACTTCCTTAAAT
CTGATTATGTGCACATATGAAAATGGCACATCATATACATGTAAAATCAGGCACTACATTAAATTACTGT
ATTGACAAGGAAACTCTTAAATTATAATGTGAAACCTGGTTATGAAACCAAAGACTAGTGCAGCATTCAG
CATATGTAAAAAAAAAGGGATTGACATGTACATACAAATGAACTTGTGAAACTTAAAGGACTACAGATTATTTT
CAAATTACTCCAAAGACTTGTATTGGAAATTACATACCTTTTTTTAAAGGACTACAGATTATTTT
AATGACTAAATTGGAGTGATACTTCTTACACTAAAATTATTTCTAGGCATTCTGAATCTGGATGAGAAACAG
GATTGTTTCAAAATAGTAAGCACATAATTAAAGGCCAACATTGACTCCTGAGATGAATTGGTGGT
CATATCAAATACTTAGTTGATGCCAAAATAAGTGAGAATGGTAAATTGCCAGGAATTCTTCATAA
CAGTATCTACAAAAACGTGTTGCTCTTCACAGTATTATGTGAAAGTCATTGTTAAAGCACGAATGTTCC
CTCTGGGGTACTTGTAAAGCTAAATTATTTGCTTCCCTCACTTAGAAGTGCACACTTACAGCAGCTT
CCTTCTTCCATGGCACTGCCTAGTTAACAGAAGTCTTAAAGACACATTCTTACAAAAAG
AGTTGAATGAGGTAAGGCATTAGATGGCTCTATATTAAAGCTATGTAATTGTCAGCGTCACTTTCT
AAGTACTTATACATATCTAACATGTCTCAATGGTTATATTTCACTTATAATATGCTGGCTGGATTAAGCT
TTGTTGAAATTGTGACCCAAACATTCAAGGCCAACGTACAAACACTGGAGTGTTTATCTCTTCAAAAGTTGTC
AATAAACCGTTAACGTACAAACGTACAAACACTGGAGTGTTTATCTCTTCAAAAGTTGTC
GCAGAGCTGCTGAAGGAAGAATTCTCATTTTCACTGAAAGTGTGAAATTCCCTCCATTGAAATATGG
TGGTTGTTATAAGCACACACAAGATACTGGTGAAGATCTAAGGAGTCTCATGTAATTAAACATAACA
TGGATTCCATACTGAGAGCCTATCTACACATTATTCAATCAATAATGCTGCTTTAAAACCTTGAAA

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FIGURE 688

MDRGFPFAAAVAAASPRARSCGLLQFMLLFSRQGKLRLQKWKWVPLSDKEKKKITRELVQTVLARKPKMCSFLÉWR
DLKIVYKRYASLYFCCAIEDQDNEITLEIIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGGEVQETSK
KNVLKAIEQADLLQEEEATPRSVLEEIGLT

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FIGURE 689

AGCGGTTACCCGCGCTGCCCTCCGGTGCCGCTGGCGACCGCTGAGCCGCTTCCCAGCGTCGCCCTAGCCCGCCCC
CAGCTCGCCGCAGCCCCGGCTCCTCCCTCGTCCGGCCCCGGGGCTGTCAAGCTTGCCTCCCTCTCCG
CCTAACGCCTGCCCTATGCCAGCCGGGTGCTCCCTCCCACAGCACCCACGGCTCTTCCCTAGCACGGGACAGGG
GCTTCCCCCTCGCCGCCGCCGCCGCCAGCTCCGCCGCCGCCGCCATGCAGTTA
TGTGCTTTAGTCAGGGAAAGCTCGACTGCAAAAATGGTATGCTTCACTATCAGACAAAGAGAAAGAAAA
AGATCACAAGAGAACTTGTTCAGACCCTTAGCAGGGAAACCTAAATGTGCAAGCTTCTGAGTGGGAGAGATC
TGAAGATTGTTACAAAAGATATGCTAGTCTGTATTTGCTGTCTATTGAGGATCAGGACAATGAACATAATT
CCCTGGAAATAATTCATGTTATGTGAAATTACTGACAAGTATTCCGGCAGTGTCTGTGAACTAGATACTCATCT
TTAATTTGAGAAGGCTTATTTATTTGGATGAGTTCTTGGGAGGGGAAGTCAGGAAACATCCAAGAAAA
ATGCTTAAAGCAATTGAGCAGGCTGATCTACTGCAGGAGGAAGCTGAAACCCCACGTAGTGTCTTGAAAGAAA
TTGGACTGACATAACTCTCCCTGTTGATGACTCTTGGCATTACACACTGTAGATGGTCACTCCCT
CATGTCCATGTTAGCTCATGGTGTAAAGATGATGCTTGTCACTATTACTGTTGCTAAGCCGCTTCATTGTC
CTACACAATTTTTAAAGGGAACTTGTAAATTAAAGTGTAAAGGGACTTAAATATGAATTAGAATGGTGC
AGAAAGAGATACTTTCTGGATATTAAAGTTAAAGGTCAAGTTCTTAATCTGATTATGTGACATATGA
AAATGGCACATCATACATGAAAATCAGGCAGTACATTATTAAATTACTGTATTGACAAAGGAAACTCTT
AAATTATAATGTGAAACCTGGTTATGAAACCAAAGACTAGTGCAGCATTCACTATGTAAAAAAAAAAAAAAA
AAGGGAAATTGACATGTCACATATCAAATGAATGAAACTTGTGAAACTTTAAAGCAATTACTCAAAGA
CTTGTATTGGAAATTACACCTTTTTTTAAAGGACTACAGATTATTTAATGACTAAATTGGAG
TGATACTCTTACACTAAAATTATTTCTAGGCATTCTGAATCTGGGATGAGAAACAGGATTGTTCAAAATAG
TAAGCACATAATTAAAGGCCAAGGCACATTGACTCCTGAGATGAATTGGTGTGTCATAATCAAATACTTA
GTTGTTTGATGCCCAAAATAAAGTGTGAGAATGGTAAATTGCCAGGAATTCTTCATAACAGTATCTACAAAAA
ACGTGTTGCTCTTCACAGTATTATGTGTAAGTCATTGTTAAAGCACGAATGTCCTCTGGGTACTTGT
AAAGCTAAATTATTTGCTCCCTCCACTTAGAAGTGTGTCACACTTACAGCAGCTCCTTCTTCCATGGC
ACTGCCTAGTTAACAGAACAGTCTATAAAAATTTAAAGACACATTCTTACAAAAAAGAGTTGAATGAGGTAAA
ATGGCATTAGATGGCTCTATATTTTAAAGCTATGTAATTGTCAGCGTCACTTCTAAGTACTTACATAT
CTAAACATGTCTCATGGTTATATTTCACTTATATGCTGGGCTGGATTAAGCTTGTGATTGTGACCA
ACATTCAAGGCCAGTGAGCACTGTCTTATCACATGCCAATTAGTTGTAATAACGTTCAACGTACAAACACTGG
AGTGTGTTTATCTTCCAAAAGTTGTCAAACATGCAAGCTGCTGAAGGAAGAATTCTCATTTTT
TCAGTAAATGTTGAAAATTCCCTCCATTGAAATATGGTGGTTATAAGCACACACAAGATACTGAGAGCCTATCTACACATTATT
TTCAATCAATAATGCTGTTTAAACCTTGA

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FIGURE 690

MDRGFPFAAAVAAAASPRARSCGLLOFMLLFSRQGKRLQKWYVPLSDKEKKKITRELVQTVLARKPKMCSFLEWR
DLKIVYKRYASLYFCCAIEDQDNEKITITLEIIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGGEVQETSK
KNVLKAIEQADLLQEEEAETPRSVLEEIGLT

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FIGURE 691

GGAGGCCAGTGC CGCGCCGCGGTGCTCACCGCGTGTGCTCCGCC CAGGGAGAGCCGGCCTACCATGGAGG
AGTACCATGCCACTGCGACGAGGTTGGCTTAATGCTGAGGAAGCCCACAATATTGTCAAAGAGTGTAGATG
GGGTTTAGGTGGTGAAGATTATAATCACAAACATCAACCAGTGGACTGCAAGCATAGTGAACAATCCTAA
CACACCTGGTTAAGTGGAAAAGCCTATAAATATTGTGACCTGTGCAGTGGTCAGAAGAGCGCATATGGCT
TTCACACAGCCAGCTCTGTTGGATACCACATCTGATGGAACCTGTACCGTAAGATGGAGAACCGGACCA
TGAAGTATTGTCAACGTTTGCCATTGCTATTGTTCTTTAACTGACTAAAAATGTTGGCTAAAGCCATTAA
CTTAAGAATTGTCAAGTGTATCCTTCAAAAAGAGTAATAGTTACTAGTGTGCTAGATGAAAAGCGTGC
ATATGCTTAAAGCTATCAACAAAAGTGAATATTATAAGCAAGCAATATCATAGTAATTGGCAGATTAGCTCAT
ATTCTATACAGCATCGTTAAATAGGAAAATTAAATGCTAGCAAAAATAAATTAGAATATGGCATGACATGA
AAATACAATCTTATATTACACCAGCTTCACTAATATTGTACCTAAGGTGATGGGAACTCCATTCAAGATA
ATAAAATTCTCTTCAGCTAGAGAAGTTAACAGGAATAATATGAACAAAAAGCTGCAAGGATAATGTGGA
GAAAATGATGAGAATTAGCTAACATTAAAGTTAAACTTCTCCCTCAGTTGACTTAATATTAGT
GGAAAGTAATAATTTTTATTTCTATCAACTAATAGTATAGTAACAACATGATTAACTGTTACTTTCT
GAGGATTAGTAAATCAATTAAATTGCAATTGTTACACTGAGGGTAAATTAAATCTGGTAAACT
GAATTCTCTAGTTAAATAAAATTAGTTGCAAGTATGATGAAACAGTGTATGACTCAAACAGCTGCCCTACAATT
ACTCATTCCATGTGGAACAAACATTATCAGATGCCATTATGGGCAATATGCTCTGCTAAGCACCATAAGTGT
AATGTGCTGTGCAAATGCTAAGTCCTTAGCAATTGTTAGTGGAAAGACGTATTAATATTGGGAAGGAAA
AGAAAGTAGTTGTTACAAGGGAGGAAAAAGTGAATCTGGTACACATATGGAAGTAAGCAAATGAAAAGCA
CTTATTGCTTCTGACAGAATTATAGATGTAATTAAAGAGTTGCTCTAGCAAGTTAAAGTGCATATAAAATA
TGCAACTCTTAGTTAAAGGCCATTATTATCAGTCTACCTATACAAGTAGTAAATTGTCATTGCTTAGTTACA
ACCATCTGTAATAACTAAAAGACTTATTATGTGGGTTCAAATTGAGTGGAAATAAGTATAGATTAAAGTAT
ACAATCCTTAGCACGTTATCTCAGGGCTTATGAAATGTAATTAAATTATTAAGAAAATAGATGAAAATTAGGG
TACACAGCTGCCACAAATGCGAAGTCAATCTGCTACTTAACCCGAAAACAAATCAGTTGCAATTACCA
CTAACACTAACATATAGAGAGCGGAACCCATAACTCATTGAATTGGAGAGGAATAAGCTAGCGTTAATATT
GACAATTAAAGGCAATTCTGTAGGAATACTATGTGCATGTTGATATTGCAAATAACAATAATTAAATA
ATTGTTCAATGTTAAGAATAATTAAACAAAATAAGGAGTTAATGCAGTGATCTTGTGTTGGCACATCAA
AAATTCTCAGTCATTATTGCTGCTGGCTTTGTGCCCTGGAAGATCATAATAGTGAACCAA
ATATACATGCGAGACTGTTTATTATTGTTAAGCATAATTAAAGAAAAAAATTACCTGCTGACT
TGCTATCTGCTCTGTTCTAGTTAAATATAATTATCTTCCTGTGCTGTA

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FIGURE 692

MEEYHRHCDEVGFNAEEAHNIVKECVDGVLGGEDYNHNNINQWTASIVEQSLTHLVKLGKAYKYIVTCAVVQKSA
YGFHTASSCFWDTTSDGTCTVRWENRTMNCIVNVFAIAIVL

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FIGURE 693A

CTTTCCCGAGTCGTTGAGGAAGTCCCCGAGGCACAGAGCAAGCCCACGCGAGGGCACCTCTGGAGGGAGC
 GCCTGCAGGACCTGTAAAGTC~~AAAAAATG~~TCAAGAACCTTCAGGACGCCCTTGAGGCAGAAGAGCAGTCCAC
 CCAATAACTCTAATGCAGCGAAGATGACCTGCCACAGTGGAGCTTCAGGGCGGTGCCCGGGCGTCAACC
 TGCAAGAGTTCTTAATGTCAGCAGCGTTCACCTGTTCAAGGAGAGATGGGACACTAACAAAGGTGGACCACCA
 CTGACAAGTATGAAAACAACAGCTGATTGTCAGGAGAGATGGGACACTAACAAAGGTGGACCACCA
 CATATGACCCCAGAAGGGATCTTCAGGGTGGAAATACGTATTGGTCGCTACCCACAGGAGAACAGGGAAACCT
 ACATCCCAGTGCCTATAGTCTCAGAGTTACAAAGTGGAAAGTGGGGGCCAAGATTGTCATGAGAGAGGACAGGT
 CTGTGCGGCTGTCCATCCAGTCTTCCCCAAATGTATTGTCAGGAAATTCCGATGTCATGTCGTGGACTC
 CCTATGGCGTACTTCGAACCAGTCGAAACCCAGAAACAGACACGTACATTCTCAATCCTGGTGAAGATG
 ATGCTGTGTATCTGGACAATGAGAAAGAGAAGAGTATGTCCTGAATGACATGGGTAATTGGAG
 AGGTCAATGACATCAAGACAGAGCTGGAGCTATGGTCAGTTGAAGATGGCATCCTGGACACTGCTGTATG
 TGATGGACAGAGCACAAATGGACCTCTGGAAAGAGGGAAATCCCATCAAAGTCAGCCGTGGGGCTGCAATGG
 TGAATGCCAAAGATGACGAAGGTGTCTCGTTGGATCCTGGACAATATCTATGCCATGGCGTCCCCCATCGG
 CCTGGACTGGAAGCGTTGACATTCTATTGGAATACCGGAGCTGAGAATCCAGTCCGGTATGGCAATGCTGG
 TTTTGGTGTCTTAACACATTTCAGATGCCCTGGAAATACCAGCAAGAATTGTTACCAATTATTCTCTG
 CCCATGATAATGATGCCAATTGCAAATGGACATCTCCTGGAAAGAAGATGGGAACGTGAATTCCAAACTCACCA
 AGGATTCACTGTTGAAACTACCAACTGCTGGAAATGAAGCATGGATGACAAGGCCTGACCTCCGGTGGAG
 GCTGGCAAGCTGTGGACAGCACCCCCCAGGAAATAGCGATGGCATGTCATGGGTGGCCCCGCTCGGTCAAG
 CCATCAAGCACGGCATGTCGCTCCAATTGATGCACTTTGTTGCAAGAGGTCAACAGCGACCTCATT
 ACATTACAGCTAAGAAAGATGGCACTCATGTTGGAAAATGTGGATGCCACCCACATTGGAAATTAAATTGTGA
 CCAAACAAATTGGAGGAGATGGCATGATGGATATTACTGATACTTACAAATTCCAAGAAGGTCAAGAAGAAGA
 GATTGGCCCTAGAAACTGCCCTGATGTCAGGGAGCTAAAAGCCCCCTAACACAGAAGGTGTATGAAATCAAGGT
 CCAACGTGACATGGACTTGAAGTGGAAATGCTGTGGAAAAGACTTCAAGCTCTCCATCACCTCCGG
 ACAACAGCCACAACCCTACACCATCACAGCTTCTCAGCCAACATCACCTTCAACCCGGGTCCGAGG
 CAGAGTTCAAGAAGGAGACGTTGACGTCAGCTGGAGGCCCTGCTTCAAGAAAGAGGGGGTGTGATCCAAG
 CGGGCAGACTGGTCAGCTGGAAACAGCTCCCTGCACCTCTTGTACAGCTCGCATCAATGAGACCA
 GGGATGTTCTGGCCAAGCAAAAGTCCACCGTGCTAACCATCCCTGAGATCATCATCAAGGTCGTGGCACTCAGG
 TAGTTGGTCTGACATGACTGTGACAGTTCAACATTAAAGAAACCTGCGAAATGTCGGGTAC
 ACCTGGATGGCCTGGAGTAACAAGACCAATGAAGAAGATGTTCCGTGAAATCCGGCCAACCTCACCGTGCAGT
 GGGAAAGTGTGCCGGCCCTGGGTCTGGGCATCGGAAGCTGATAGCCAGCATGAGCAGTGAACCTCCGAGAC
 ATGTGTATGGCGAGCTGGACGTGAGATTCAAAGACGACCTCCATGTGAATGCAAGGAAGCTGAGATGAACCC
 TGGCATTGGCCTTGTAGTCTTGGCTAAGGAAATTCTAACGCAAAATAGCTTGTACTTAGGTGTGA
 AGACCCAGACAGGACTGCAGAGGGCCCCAGAGTGGAGATCCCACATATTCAAAACATACTTTCAAACCCAG
 GCTATTGGCAAGGAAGTTAGTTAAATCTCCACCTTCAAAGAGTGCTAACGATTAGCTTAAATTAGCTC
 TCATAGCTCATAAGAGTAACAGTCATCATTATCATCACAAATGGCTACATCTCAAATATCAGTGGCTCTCTT
 ACCAGGGAGATTGCTCAATACCTGCCCTATTAAAACAAGACTTCAGATTCCCACCTAGCCTTTGGGAATA
 ATAGCACATGATTGGCTCTAGAATTCCAGTCCCTTTCTCGGGGTCAAGGTTCTACCCCTCCATGTGAGAATATT
 TTTCCCAAGGACTAGAGCACAACATAATTTCAGTTACCTTGTAGAAGAGGTGGGGCATATTAAACAAATTGCAATTG
 GCCAAGCAAATGCCCTGCCAATTAGATTACCTACAAGGAGATAAGAAAGCAGGTGCAACACTCAAGTCTATTGAAATAATGTAGTTGTG
 ATGCATTATAGAATGTCACACTGTCAGGAGCCAAATCCCTTACTTTAACCTTCTGG
 ATGCAATACTAGGAAGTAAAGTGAAGAATTATCTCTTTAGTTAGTGTGATTATATTCAACCATCTCAGGAATC
 ATCTCCTTGCAGAATGATGCAAGGTTCAAGGCTCCCTTCAGAGATATAAGCCAACAAGTGAAGAAGCTGG
 CGGATCTAGTGCACAGATATAGAAGGACTGCAGCCACTGATTCTCTTGTCTTCACATCACCATTGAGA
 CCTCAGCTGGCACTCAGGTGCTGAAGGGTAATATGGACTCAGCCTGCAAATAGCCAGTGTAGTCTGACCCA
 ACCACAGAGGATGCTGACATCATTGTATTATGTCAGGAGCTACTACAGAGAAGGCTGCTATGTATTG
 AAGGCTGATTATGGTCAGAATTCCCTCTGATATGTCAGGAGCTGATTAGGTCAAGTAGACTGTGATTCTTAG
 CAAAAAAATGAACAGTGATAAGTACTGGGGCAAAATCAGAATGGAATGCTCTGGTCTATATAACCACATTCT

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FIGURE 693B

GAGCCTTGAGACTGTTCTGAGCCTTCAGCACTAACCTATGAGGGT GAGCTGGTCCCCTCTATATATAACATCAT
ACTTAACTTACTAAGTAATCTCACAGCATTGCCAAGTCTCCAATATCCAATTAAAATGAAATGCATTG
CTAGACAGTTAAACTGGCTTAACTTAGTATATTATTAAATTACAATGTAATAGAAGCTAAAATAAGTTAAA
CTGATTAT

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FIGURE 694

MSETSRTAFGGRRAVPPNNNSAAEDDLPTVELQGVVPRGVNLQEFLNVTSVHLFKERWDTNKVDHHTDKYENNKL
IVRRGQSFYVQIDLSRPYDPRRDLFRVEYVIGRYPQENKTYIPVPIVSELQSGKGAKIVMREDRSVRLSIQSS
PKCIVGKFRMYVAWWTPYGVLRTSRNPETDTYILFNPWCEDDAVYLDNEKEREYVLNDIGVIFYGEVNDIKTRS
WSYGQFEDGILDTCLYVMDRAQMDSLGRGNPIKVSRVGSAMVNAKDDEGVLVGSWDNIYAYGVPPSAWTGSVDIL
LEYRSSENPVRYGQCWVFAGVFNTFLRCLGIPARIVTNYFSAHNDANLQMDIFLEEDGNVNSKLTKDSVWNYHC
WNEAWMTRPDLPVGFGGWQAVDSTPQENS DGMYRCGPASVQA IKHGHVC FQFDAPFVFAEVNSDLIYITAKKDGT
HVVENVDATHIGKLIVTKQIGGDGMMDITDTYKFQEGQEEERLALETALMYGAKKPLNTEGVMSRSNVDMDFEV
ENAVLGKDFKLSITFRNNSHNRYTITAYLSANITYTGVPKAEFKKETFDVTLEPLSFKKEAVLIQAGEYMGQLL
EQASLHFVTTARINETRDVLAKQKSTVLTPEIIIKVRGTQVVGSMDT VTVQFTNPLKETLRNVWVHLDGPGVTR
PMKKMFREIRPNSTVQWEVCRPWVSGHRKLIA SMSSDSLRHVY GELDVQIQRRPSM

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FIGURE 695

GCCCCGCTGCGGTAAATGGGGCAGAGGCCGGGAGGGGTGGGGGTTCCCGCGCCGCAGCC **ATGGAGCAGCTCGCG**
CCGCCGCCCGTCTGCAGATTGTTCTGGCCACCTCGGCCGCCCTCGGCCGGGCTGCTGCTAGCTCATCCCACTT
CAGGGACTATTCCCTGCCAGTTCCATCCTAACAAATTCCAGTATACTCTGGATAATAATGTTCTAACCTGG
AACAGAGAAAATTATGAAGAAAATGGTTCTAGTAATCAAAAATCTGTACCTGATGCCGATATTCAACGCT
TTCGGAATGAGTTGAAAAATCTGCAGAAAGGAGGTGAAACCATTAGGATTAACAGTAATGAGAGATGTGACCA
TTTCGAAATCCGAATATGCTCCAAGTGAGAAGATGATCACGAAGGTCCAGGATTCCAGGAAGATAAGGAGCTCT
TCAGATACTGCACTCTCCCCGAGATTCTGAAATATGTGGAGTGCTTCACTGGACCTAATATTATGCCATGCACA
CAATGTTGATAAAACAAACCTCCAGATTCTGCAAGAAGACGTCGGTCAACCCCTGCACCAAGGACCTGCACTATT
TCCCCTTCAGGCCAGCGATCTCATGTTGCGCTGGACGGCAGTGGAGCACATCAGCCGAACAACGGCTGTC
TGGTTGTGCTCCAGGCACACACAAGGCTCCCTGAAGCCCCACGATTACCCCAAGTGGAGGGGGAGTTAAC
AAATGTTCCACGGGATCCAGGACTACGAGGAAAACAAGGCCGGGTGCACCTGGTGTGGAGAAGGGCGACACTG
TTTCTTCATCCTTGCTCATCCACGGATCTGGTCAAGATAAAACCCAGGGATTCCGGAAGGCAATTCTG
ATTCGCCAGTGCCGATTGCCACTACATTGACGTAAGGGCACCAGTCAAGAAAACATCGAGAAGGAAGTTGTAG
GAATAGCACATAAAATTCTTGAGCTGAAAATAGCGTGAACCTGAAGGATATTGGATTTGAGCTGACTGACTG
TGAAAGGAGAAAGAACCAATCTT**TGA**ATAGCCATCTGCTATAACTCTTCAACAGAAAACCAAAACGAA
ATGTCTAAGGAAAATGTTCTTAATGAGATGATGTAACCTTTCTATCACTTGTAAAAGCAGAAAACATGTAT
CAGGTACTTAATTGCATAGAGTTAGTTGCAGCACAATGGTGTGCTTAATGGAAAAAAACAGTAAAAGT
GAAATATTACTGTTTAAGGAAAATAATTAGGGTGGCAGCAATAAGGTGGTGTCTAATTAAAGTGT
AAATCAATTCTTCATTCAAGTTAGCTCTTACCCAAGAAGAAGTGAATGATTGGAGCTAGGTATGTTGT
ATCCCCTTCTGATAAACCCATTCCCTACCAATTATGTCTATAAGGAGATTTTCCCAAATCTAGAACAAAT
GTATAATACATTACATCTAGTCAAGGGCATAGGAACGGTGTCTGGAGTCCAATAAGTGGATATTCTGCTC
GG

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FIGURE 696

MEQLRAAARLQIVLGHHLGRPSAGAVVAHPTSGTISSASFHPQQFQYTLDNNVLITLEQRKFYEENGFLVIKNLVPD
ADIQRFRNEFEKICRKEVKPLGLTVMRDVTISKSEYAPSEKMITKVQDFQEDKELFRYCTLPEILKYVECFTGPN
IMAMHTMLINKPPDSGKKTSRHPLHQDLHYFPFRPSDLIVCAWTAMEHISRNNNGCLVLPGTHKGSLKPHDYPKW
EGGVNKMFHGIQDYEEENKARVHLVMEKGDTVFFHPLLIHGSGQNKTQGFRKAISCHFASADCHYIDVKGTSQENI
EKEVVGIAHKFFGAENSVNLKDIWMFRARLVKGERTNL

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GC GG GAC GTGGG CAGG AGGG CTGG AAAAGCCGGCCTGGAGCGGGAACCGGAGTAGCTGCC TGGG CCAAAGG CCG
GCGG CACT CCCAC CGGG ACCCGAAGTCCGCAACCCGGGATGGGCC CGGCTCGGAGGGATCTCTCTGGAT
CAAG CAATGGTGGTAAAAAATGTT CGCAAGGGAAAAACGACACAGTAGTAGCAGTCCAAAGTAGCGAAAT
CAGTACTAAGAGCAAGTCTGTGGATTCTAGCCTGGGGCTTACAGATCCAGCACTGTGGCCAGCCTCGACAC
AGATTCCACCAAAGCTCAGGACAAGCAACAATAATTCAAGATACCTGTGCAGAATT CGAATAAAATATGTTGG
TGCCATTGAGAAA ACTGAAACTCTCGAGGGAAAAGGCCTTGAAGGGCATTAGACCTGATAAAATTATAGACGT
TGCCCAGCAAGATGGAAAGTTGCCTTTGTCCTCCGGAGGAAGAATTATTATGGGAGTTCCAAGTATGGCAT
AAAAGTATCAACATCAGATCAATATGATTTGCACAGGCATGCTCTACTTAATAATCCGGATGGTGTGTTA
CGATGACGGTCTGGGGCGGGAAAAGCTTACTGGCTCTGAAGACCACAGATGCAAGCAATGAGGAATACAGCCT
GTGGGTTATCAGTGC AACAGCCTGGAACAGCACAGCATTGCAAGGTTTATCCACCGCTTGACTCTGT
ATTAACATCTGAGAAACCCTGAATCCTGCAATCAAGTAGAAGTCACCTCATCTGAAAGTCAGCTGTTCAAA
CTGCAATGCTGAAATGTTATGCAAATAATGAAGTTATCCCTGCTCTAGATTTCTGAAGAAAATGGATTGTGTA
AAATGCTGATCATTGTTATTAAAATGTGTCCTATTACACAGTGAGTTAACCTCAATGAAGTCATCTATTTC
TGGGCTAAAAAACTCATTGTCCTTCAACTCTAACGCTAACCTAACGTCAGTGACAGAGACGAGATGTCAC
AGAGGTC CACTCAGTGACAAACACACACTGAAGGCCTGAGGGAGACTGAGGACATGGCCTAGTGGGGCTCC
CAGTCATGGTATCACTGGCATGGACCTCTGTCGGCAGAGGTGTGGACTGGAGACCAAGGATTGTCATGCTGGCTGG
AACAAATGACATTGCCAACTTAAGACACACAAAGCAGATTTCAGAAGTGTCTGGTCAAGATAACATGCTGGCCAA
CCACAACTCTAGAGTTAAGAGAACCTAAAGATTACCGCTCATGCTAAAGTAGTAAAGATCCCATGTCAG
TATGATAGTGTACTTTTAAAGGACTGTCAATATAACAAAATTTAAAGATTAAAAACATTAAAAAATAAAAAA

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FIGURE 698

MFRKGKKRHSSSSSQSSEISTKSKSVDSSLGGLSRSSTVASLDTDSTKSSGOSNNNSDTCAEFRIKYVGAIEKLK
LSEGKGLEGPLDLINYIDVAQQDGKLPPPEEEFIMGVSKYGIKVSTDQYDVLHRHALYLIIRMVCYDDGLGA
GKSLLALKTTDASNEEYSLWVYQCNSELQAQAICKVLSTAFDSVLTSEKP

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FIGURE 699A

GGCACGGGGACATCAGGATATCCTGAGTGTCTGCAGATGGTGGCATCGT**G**ATGGCTATTCTAGTGGCGTCAC
CAATGGGCTGAATGATGCCAGCGACTCCATCTACACGAAAGGCACCCCGGAGATTGCTTCTGGGAAGCAATGC
TGGGGTAAAACAACACGGCTAGAACGCTCATTCTGAAATGGGGAGCACTGAAATTGGAAAAGGAGACCCCAGA
AAATCTCAGTAATGGTACCAGCAGCAATGTGGAAGCAGCCAAAGGTTGCCAAACGCCATTATCAGCTGGACAG
ATTCAAAGATCAGATGTTGAAAACACCTTGGCAAGAACAAACGAATTAGCAAACACTAGTTGCAAGAAGAATATCT
GAAGTTTTGATTTCAGGAATGACGCTGGATCAGTCACTCAGGTATTCTTAAAGCATTCTCTGTGGG
AGAAAACCTCAAGAACGAGAGAGAGTTAACACACTCTCCAATAGATATTTTATTGTAACCCAGATAACCATTGC
TTCACAAAGATGGAGTCCATTGCCATTCTGTGCAATAATGCTTCTTAATACCGATCTACATGGCACGTGAATAT
TGGAAAGAAGATGACCTGTCAGGAGTTCAATTGCAAATCTGCAAGGGTAAATGAGGGTGTGATTCTCAAGGA
TCTGCTGAAAGCTCTGTACAACACTCAAGAACATGAGAAGCTGAATGGCAGTAGATGATGAAGAGAAAAAAA
GTCTCCCTCAGAAAGTACTGAGGAGAAAGCTAACGGAACACATCCAAAGACCACAGTCGTATTGGAAGTACTAC
TAACCCATTGGACATTCCATGATCCAAATGCTGCTGTACAAAAGTGGATTCTGGCTCGGAAAATTCA
TGCAGATATGGATGAAAGAACACTCCAAGAGGAAACGAGGGATGGAAAACCTTTATGCTGACTGAAGGGAAAC
AGTTCTTACTTGCAAAAGGATGAATAACAAGCCAGAAAAGGCCTGTCTGAAGAGGACTTGAAAACGCTGTGAG
TGTGCACCACGCATTGGCATCCAAGGCCACGGACTATGAGAAGAAACCAACGTTAAACTAAACACTGCCGA
CTGGAGGGCTTGCTTTCAAACCTCAGAGCCCAGAGGAAATGCAAGGGTGGATAAACAAATCAATTGTGTGGC
AGCTGTATTCTGCACCACATTCCAGCAGCAATCGGCTCTCAGAAGAACGTTAGCCGCCACTCTGCCTGC
CACTACAACAAAACGTCTCAGGAGGAGCAACTGAAGTCACATGAAAGTAAGCTGAAGCAGATCACCACCGAGCT
GGCCGAGCACCCTCATATCCCCCGACAAGAAGGTCAAAGCCAAGGACGTCATGAGTACAAACTGAAAGACCA
CTATCTGGAGTTGAGAAAACCGCTATGAAATGTATGTCAGCATTCTCAAGGAAGGAGGCAAAGAGCTACTGAG
TAACGATGAAAGCGAGGCTGAGGACTGAAGAACGTCACTCGAGTCCTCGCTGAACCCGATACTTCTCAAAT
CACTGCCAAAGTCAAGCGTAACGTGTCAGAGAGGAAGGATCACCGACCTGAAACACCAAGCATTAAGCAAAAGT
TACT**TAG**AGTCCATCTGCCAGGAAGTGTGGTCATGGAGCAAATAGGGTTTCAAGATCTTCTGGTAAT
CCGTGAATATATTAAAAAAAGCTGTGACAAAACGGTGCATTAGTAATTCTTCTATTGTATATTG
TTAGTTCTGTACAGATTGCTTGCTTGATTCTTGATGATTGCAACTGATAGCTAATGCA
CCTTTCTGTGAGGAGGGATCGTATTGAGAATTATGTATCCCTCTTTGGTTTCTTGT
TGCAGTCGCTCAGTTGTTATGTATTCTCATATCAACTGTTAAACTTTTAAGGTTAAAGAATTAAATCC
ATTGTGAAACACTTAACGGACAAACTGTAGTTAGTAAATTCTAGCTGGAGTTAATACGCCATTATGTG
AAATCTGCCAGTCACAGAGGTAGAATTGAGCACTCACAGATGCTCCAGTAAGAACATCACAGTGTGGAAATCTA
GTTGCTCAATATGAGGCAGCTCATGTCAGCTTAGCACTGTTGAGATCGGACCTGCTGGAAAGCAGGG
AAAGAACGCTGAAGATCGTAGGATTGAGAACTTAGGGAAGCACATTAGCTTGCTGAAGTGTGATTCCATTCA
GCCAACGCAAGGGAAAGAGGAAGTGGAGTCATTGCTTGAAGGCTGAGGAAAGATTGATAACCCAGTTAATT
GTTGCTAAAGGATGGGGCAATAATCGGCCATTGAGGAGCTGAGCAGTAGGATGTGCTCAGTCTGCAGGAAT
TGTTACCTCACTCCCACAGGGCTAGACTAGAAATCCATCATCTATGTTGATATCCTTCCATCCAGGAATAG
ATTTTCTTACTCTACATATGTTGCTGCGTGTGCGTGTGGCATGGGTGTGCTTGT
GATATTGAGGTCTCCTTCTAACAAATTAAACTAAATGAAACAGCTTCTTGTGCTTAAGACAAAATAA
GGAAGGAAACGTAGCTGAGCTTGTCCACGATGGATATTGGTTCTTAAATATCTGAAAGTAGTAGTCAGAA
TGAATTATGGTTGGAAAAGTGGAAATCTCTGTTGAGGTCAAAGTGAATTGTTATTCTGTCTCAGTCT
CCTGATAGCCACTCACTCTGCTACTACTCAACTTCTCTAAATACTTCATCTATTTCAGTCCTTGAAGTTAGGG
TGATAAACAGAAATTCTCTGTAGAGGAAGAGAAAGGAGTGAAGTTAGCCACTGAGACCTAGAGCTTGTG
ATTCCTAACCTGAAACTCTGTAATCCCTAAAGTAAATCTCCGAAGTGGCACAACTCAGAACTAATAGTA
TCACCTTGATTTCCTTCTCCCTAGAAAGTTCTAGTTCTATAGTTATTGTTGAAGGACTATGAC
CAAAGAACGCTGCTCTACAGGAATAGCATGGTCCAGTGAATTAGAGAAAACCTGCTGTAAGCCATGGTAGT
GTCTAAGTGGTATGTTATTGATGTTAGCATTATTCAGAAATTATTAACTGTTACTTCCTTCCCT
CTGTAATGTCCATGACTATTGCCAGAGAAGGCTTACCCCTCTAGGGTTGAGTTGCTTCTTGTAATAAG
TATTGTTGCCACACCTGTAACACACCTCACTTTAACCTCTGCTTGTGTTGGTAAAGGCAGTAACAA
GTTTATGTTGAGAACTGCAAAACACAGGATAGTTACCAATATGCCCATGTCAGATTGATTGTTGTAGCC

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FIGURE 699B

TCTCACTGAATCCAACATATCCACAAGCAAGTTATCGTCTTCTACCTGATAATCTAAATTATCAGGATATTG
TTTCTGCCCTAAATGTTTATACTAAGCGAGGGGAGAGAGGTACCTAGACCATGTCATCTACGAGCTTCAGTAAC
TAAAGAAAAAGGAACTTCCCTGAGTGGCTGAATGTGTTGCCACAGTCTATATCTATGTATAGAATGTCG
TATGTATTTACTTATTAATATACATTGAATGGTACCTGCTACAGTATTCTGACATTTAGAGTAGTGTTGAA
ATACTCGGCTAGCATCAGCACCACTATAGCACTGTCGTGTCATATGAGTCACTAATATTAACTCCAGGGACTTC
TGGATAGGCTAATAGATCATTGGATACGAAGGGCTTTGAGGCTTGTGAGGCTTCAGTACCATGTTGCATAGTTATCT
TTAAAAACAACTTAAAGGTTCTTGTGAGGCCAGGATCTCAGACTGCCGTAGCATGATGCTGTCCATCTTAGC
GCATGGGCTGAGAACACCTCTCCCTGAGGCTCTGAAGGGTGTGTCATGAGTCATGAAGGAGGCCAAG
AGTTTATGCTATGGGAGGAACCAGTCAGTGAATTGCCTAGATTCTGAGAGTCTGCCCATGCCAACACATT
CCTTGGGATAATTATTCCTGTGGCATCTAGCCAGAAGAAATTGAGGATGTTCCCTTACAGCTGCTCCAAG
CCTGTTGCCAATTACGGTACAAGGGAGCACCCCTCCCTGAAGGTACGCCACCCACCTCCGTGCC
CACCTCAGCGCCAGGAGCCTGGGACTCCTCCATATGATAAATCATTCTTCACGTCATACACTTCATA
TTAATTCTAGTACAGAAAATCTTGACAGCTATCAGAATGCCCTGGTCATAGTGTGTCAAAATTGACCATAC
AGGTGGCCATGTATAAAATCTGAATTAGGGGTTGTCCCCACCTCGCATGCTGGCTTACAGGGAGGTGTC
TGGGATTCTCATTAGCAATAAAACCTAATTACTGGGATGCAGACTCCTACTTATGCCAGCCCCTAGGCAT
TTCTGAAGTGCACTTTTGAAACATCATTGCTAACTCTCAGCAGTGTCTAATTAAACTGAGCAATACTTTG
TGAATTTAATTAAATCTCAGAAAACATGATGGGAGAGAGCCTCTGATGAAATGAGTCCCTGGATTATGTG
TAACCTTTATTGCTCTAGATGCAGAGGATAGAAAGCATTGGTGCAGTGGCTTGCAACACAAGA
CCCTCTATGCGTCTCAAATGTTATCTAATCTAGAAAATGAGGACTGCCCTGGCAAAGTGACATGAGGAA
TTTACTCTGGAAGAGGAAAATGGGTTGGCTTCCAAGGCTAAGATAGGTTGTATTCACCCCTGGCAAAGCT
ACAGAACCTCTGAGATTGTGAAAGAATTGCAACCAGCAGGAAAGAGGCCCTTACTGCCAAACACAAAGT
TACACTGAGCTTTCTACTGTCCTTGCCTATTGCTCCCTATCATGTAAGATCTGGGAAGGATGAGAGGCAG
GCCCTGCTTGTCACTGAGCTGCACTCTTCTTTAACTAATCATTGACAATTGGAAGAAATTGACGTTAAAGA
AGTTCTCCATTGCTTACTAACAAACCTTGGGTTCAATTGCTCTGAAATTGAGTCCCTGGCATT
TTCCCTGCACTGCACTGTTGCATCCTGAATTACAGAAGTTAGCTTGCAGGTTGAATCTCTG
TAATTAACTCCCGGACTGGTCAGTTTCAGCAGGTTGGGAGGCCACCTCTTCATTGCACTGAGTCA
TCCCTGACTTTCAAATGACAGAATTGCAATTGAAATTGACTGAAACAAAGAACAAAGTGGCA
TCCTAAGAGTTGTTAACCTGAAGTCTAGTTATGAGGAATTGCAAGTTGGAGTTAAATAGTATCTGCTTT
GTCTCAAAGCATCTAAGTATTCTGACAGAAAATGTAAGTCAGCTTGCAGGCCAGATGCCCTCTGGCCTCCT
ACCTTGCTCCACAGCTTCTGGCCATCTGTCTCCAGGCCATGCCACTGCTCTGCCACATGTCAGCAAATTCT
TTCCACCACTTATAGCATCTACATGATAAACTCATCACAGAATAACCCCGTGTAGATTATTGATAGCAATA
GAGAGGGCGGCTTGTCACTGATTTCTCTCAGATTCCATCTCATCCATAAAGGAAGGACTGAAA
TCCAAAGGCATTCTCTTTGTACCTACAGTATCCAGAACCCACGTGGCAGCCTCTGCTATGACAATAATTG
GCCCATGCACTGAGAGAATGCTTCATAGAGAATGTCATTAATACTGAAATCTGCATGACAGTTGACT
TGAATGCAACAGCAGGAAAATTGCAAGTTACATAATTGTATATACAGTAGGTTCTTAAGTCTTCGGTTC
ATCCTTGTAAATTGTGTGTATCTGTAGTATTGCACTGAGGCTTTGGAGACTATTCTACAGGCAGTATGTCAGTC
ATCAAAGAAAATGCTGTACCTGCCATTGTTGTATTGTGGGTATTTATAGTGTATGTAATGCACTGAGT
GTGTAGATTGCACTGAGTGTATGGTACATGTCATCAAATTATTGTCTTAATCAGTGTGATATGAAAAG
CAAGTACAACCTCATAGGACTGATTATATAATGAAGTTGAGAGTATATAGTGGTATTGTTATTAAACT
TAAACTCAAATAATATTGATTAAGAAATTGACTTATGCTAGAAAATTCTTGAGCTTGAATCACC
AGGGCAAAATGACTTCAACTAACCTGTGAATCTTGCACTGTCAGTGTACTGTGCAATACCAAGGGCATAGCTCC
CTGTAATTGGGAAATACAGAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG

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FIGURE 700

MGYSSGVTNGLNDASDSIYTAKGTPEIAFWGSNAGVKTTRLEAHSEMGSTEILEKETPENLSNGTSSNVEAAKRLA
KRLYQLDRFKRSVDVAKHLGKNNEFSKLVAEEYLKFFDFTGMTLDQSLRYFFKAFLSVGETQERERVLIHFSNRWF
YCNPDITIASQDGVHCLTCAIMLLNTDLHGHVNIGKKMTCQEFIANLQGVNEGVDFSKDLLKALYNSIKNEKLEWA
VDDEEKKKSPSESTEAKANGTHPKTISRIGSTTNPFLDIPHDPNAAVYKSGFLARKIHADMDGKTPRGKRGWKT
FYAVLKGTVLYLQKDEYKPEKALSEEDILKNAVSVHALASKATDYEKKPNVFKLKTADWRVLLFQTQSPEEMQGW
INKINCVAAVFSAPPFPAAIGSQKKFSRPLLATTKLSQEEQLKSHESKLKQITTELAEHRSYPPDKVKAKDV
DEYKLKDHYLEFEKTRYEMYVSILKEGGKELLSNDESEAAGLKKSHSSPSLNPDTSITAKVKRVNUSERKDHRE
TPSIKQKV

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FIGURE 701

GTGGCCGCGCAGGAGGACGGAGGCCAACGCAACCGCGCCGCGCCGCGCCGATTGATTGTATCCACTGTCA
CCAGCACTGCTCACCTAGGACTTCTGGATCCAGACCCAGGCAGCGCACACTGGACTCTTGAGGAAGAAGGAGAC
TCTAATTGGATTCTGGAGGAAAATAAAACACTCTGGTCTGCCAACGATGCAAGTGTGACTGCTG
GCGTCTTCATGAGCTCCAGAGGTACAGCAGCTACCAAGGACTCTCATGGCCCTCGGATGATTCCGAGGGAG
ACATAGGAGGCATTGCTCAAATCACCTCCTCTATTCCCTGGGCAGAGGCAGTGTGGCCTCCAATGGCACCTCC
TCCAGGCTCGTGGCATCACCTGCATTGTTAATGCTACCATTGAGATCCCTAATTCAACTGGCCCCAATTGAGT
ATGTTAAAGTGCCTCTGGCTGACATGCCGCATGCCCTATTGGACTGTACTTGCACACCCTGGCTGACAAGATCC
ACAGTGTGAGCAGGAAGCACGGGCCACCTGGTGCACTGTGCTGCAGGGTGAGCCGCTAGCCACGCTGTGTA
TCGCCTACCTGATGAAATTCCACAACGTGTCGCTGCTGGAGGCATACAACACTGGTGAAAGCCGGCACCTGTCA
TCAGGCCAACGTAGGCTCTGGAGGCAACTGATAGACTACAGCGCAGCTTGGGAAGTCGACAGTTAAA
TGGTACAGACACCTTATGGCATAGTCCCAGTCTATGAGAAGGAGTCCGACACCTGATGCCTTACTGGGGGA
TTTAGTGCCACTGAAGCCTGCGTCAGCAGCCGAGCGGGGCCGCATCTGCTCCCCGCCGTGCTCCCTCTCCA
CTCTCTTCTCAAATGGCTGACTTCTGGTTCTCCCTCAAGTGTAAAAACTGGGTGTTCAAATTATTAAAGA
GATAGGGAGGGAGGGGACATAAAGGAATGCATACTTGCTAGTCACATTAAACATTGGAATAGT
GTTTATGAAATCTTAGCTTTAATCATTACCAATTGAACAGTTAATAACTGGTCTGCTCTCTG
AATCTCATGCCCTTGGCACCTGGTAGGTGCAGGAGGAGCTAGTGCAAAATCATTGGGCCTCATTAAACCC
TTAGAGACAAGCTTGGCCAGGCTGCCGACAGACAGATGCTTAGGGAAGGTTGATACCAGCTCAGTCTCTA
CTGGATTAGCCCTACTCTTCCCTTCCCTCATTATTAGCTGACTCTGTAAGTAAATACACCCTTATTA
TTAGCTGTTAAGTAACTATAATGAAATCTGCTGCAAAATCTCTTGGAAATCCATGTGCCAGGATTATATTAG
CATTATTAAATAATCTATGCTAAAAAAAAAAAAAA

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FIGURE 702

MSSRGHSTLPRTLMAPRMISEGDIGGIAQITSSLFLGRGSVASNRHLLQARGITCIVNATIEIPNFNWPQFEYVK
VPLADMPHAPIGLYFDTVADKIHVSRSRKHGATLVHCAAGVSRSATLCIAYLMKFHNVCLEAYNWVKARRPVIRP
NVGFWRQLIDYERQLFGKSTVKMVQTPYGYIVPDVYEKESRHLMPYWGI

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FIGURE 703

CTGGTGACTCGCGCGGCGGGCGGACGGCCCAGCCGGAGCGCAGGGGGCTGGGGGGCGCGGGTCGGT
 CGCAGAGCCAGGGACCCAGGACCCGGAGGCAGCGCAGCCGGGCCGGAGGAGCGCGGGTACCTGGCGC
 GGCAGAGATGCCGCTCGCCCAGCTAAGGAGCCCTGGCCCTCATGGAGCTAGTGGCCTGGACCCGGAGAATGGA
 CAGACCTCAGGGAAAGAAGCTGGACTTCAGCCGTCAAGGATGAGGGCGTCCTCAAGGAGATCTCCATCACGCAC
 CACGTCAAGGCTGGCTCTGAGAAGGCTGATCCATCCCATTGAGCTCTCAAGGTTCTGGCCAGGGATCCTT
 GGCAAAGTCTCTGGTGCAGAAAGTCACCCGGCTGACAGTGGGCACCTGTATGCTATGAAGGTGCTGAAGAAG
 GCAACGCTGAAAGTACGTGACCGCGTCCGGACCAAGATGGAGAGAGACATCCTGGCTGATGTAAATCACCCATT
 GTGGTGAAGCTGCACTATGCCTCCAGACCGAGGGCAAGCTCTATCTCATTCTGGACTTCCTGCGTGGGGAC
 CTCTTCACCCGGCTCTAAAAGAGGTGATGTTACGGAGGGATGTGAAGTACCTGGCCAGCTGGCTCTG
 GCCCTGGATCACCTGCACAGCCTGGTATCATTACAGAGACCTCAAGCCTGAGAACATCCTCTGGATGAGGAG
 GGCCACATCAAACACTGACTTTGGCTGAGCAAAGAGGCCATTGACCACGAGAAGAAGGCCATTCTTCTGC
 GGGACAGTGGAGTACATGGCCCCTGAGGTGTCACCCGCCAGGGCACTCCCATAGTGCAGTGGGTCTAT
 GGGGTGTGATGTTGAGATGCTGACGGCTCCCTGCCCTTCAGGGGAAGGACCGGAAGGAGACCATGACACTG
 ATTCTGAAGGCGAAGCTAGGCATGCCAGTTCAGTGGACTGAAGCCCAGAGCCTTGTGGGGCCCTGTTCAAG
 CGGAATCCTGCCAACCGGCTGGCTCCGGCTGATGGGGCAGAGGAATCAAGGGCATGTCCTACTCCACC
 ATTGACTGGAATAAGCTATACCGTCGTGAGATCAAGCCACCCCTCAAGGCCAGCAGTGGCTCAGCCTGATGACACC
 TTCTACTTGACACCGAGTTACGTCGTCCGCACACCCAAGGATCCCCCAGGCATCCCCCCCAGCGCTGGGGCCAT
 CAGCTGTTCCGGGCTTCAGCTCGTGGCCACCAGGCTGATGGAAGACGACGGCAAGCCTCGTCCCCCAGGCA
 CCCCTGCACTCGTGGTACAGCAACTCCATGGGAAGAACCTGGTTTAGTGAACGGCTACGTGGTAAAGGAGACA
 ATTGGTGTGGCTCTACTCTGAGTGCAAGCGCTGTGTCACAAGGCCACCAACATGGAGTATGCTGTCAGGTC
 ATTGATAAGAGCAAGCGGATCCTCAGAAGAGATTGAGATTCTCTGCGGTATGCCAGCACCCAAACATCATC
 ACTCTGAAGAGATGTTGATGATGGCAAACACGTTGACAGAGCTGATGCCGGTGGGGAGCTGCTG
 GACAAGATCCTGCCGAGAAGTTCTCAGAGCGGGAGGCCAGCTTGCTGCCACACCATTGGCAAAACTGTG
 GAGTATCTGCACTCACAGGGGTTGTGACAGGGACCTGAAGCCCAGCAACATCCTGATGTTGACGAGTCCGGG
 AATCCCGAGTGCCTGCGCATCTGTGACTTGGTTTGCAAAACAGCTGCCGGCTGAGAATGGCTCCTCATGACA
 CCTTGCTACACAGCCAACTTGTGGCCCTGAGGTGCTGAAGGCCAGGGCTACGATGAAGGCTGCGACATCTGG
 AGCCTGGGATTCTGCTGTACACCAGTGGCAGGATATACTCCATTGCAACGGTCCCAGTGCACACACCAGAG
 GAAATCTAACCGGATGCCAGTGGAAAGTTACCTCAGTGGGGAAATTGGAACACAGTTCAGAGACAGCC
 AAGGACCTGGTGTCCAAGATGCTACACGTGGATCCCCACCAGCGCCTCACAGCTAACGAGTTCTGCA
 TGGTCACCCAGAAAGACAAGCTTCCCAAAGCCAGCTGTCACCAGGACCTACAGCTTGTAAGGGAGCCATG
 GCTGCCACGTACTCCGCACTAACAGCTCAAGCCCACCCCCCAGCTGAAGCCCAGTGCAGTCATCCATCTGGCC
 CAGCGCGAGTGAGGAAGTTGCCATCCACCCCTGTGAGGCACCAAGGGCATTGGGCCACAGGGCGGTGCTAGC
 TTGACAGAGTCAGCATGCTTCCAGAGGGAGCAGGCCAGAACACAGGAGCTGGAAACCCGAGGGGACTGAGT
 CGGGGAAGCTGCCAGCCAGAACACCCCTAATGAGGGTGTGAGAAGTGCCTTCTCTCCAGGATGGACTCTT
 CTCGGCTCAGGCTCTGCTGGGAAAGCGATTCACTGTATAAAACTTTTTATGAAAAAAATGGCATCAACCAC
 CATGGATTTACAAGATCCATTGCTTCTGGAGCAGAAACAGCCATTGCCACCCAGGGAGCTGGAAACCCGAGGGC
 CACGCTGGGCTCTGAGACTCTTAGAGCAGCTTGGATCCCACCCCTGGGGACCCCCATGATTGGCCACCTG
 TAGCCATCTGCACACACCTCCGAGACAGTCCAGTGTACCTCTCAGAGCATCTGGCTGTTAGCAGAACTCAT
 TCTATCCCCAATCAGCTCTTCCGTTCTGCTGGAGTTCTAGAACCACTCCTGCTACAGGAGGGTC
 TCATGTCCTGCTGGCTTCCAGCTCAGGCACCAAGCATCCACCTGGCTCTGCCAGTGGATCCCCTGCGTCAGGC
 TGGGCAGCCCCAGAGAGAGGATGTGGAAAGCACTTTGGCTGACTTCATCTGGGGTTGGCAACAGGACAGAGTT
 CACAGGAGGCCAGTGGCGGGCCATGAGGGACAGGGTCTTTTCAATTCTCAGCTGGTTACTCAGGGTTC
 ATCTGTCCATGCCCTTCTAATAAAACTGTTGAGTTGAAAAAA

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FIGURE 704

MPLAQLKEPWPLMELVPLDPENGQTSGEEAGLQP SKDEGVLK EISITHHV KAGSEKA DPSH FELLKVL GQGSFGK
VFLVRKVTRPD SGHLYAMKVLKKATLKVRDRVRTKMERDILADVNHPFVVKLHYAFQTEGKLYLILDFLRGGDLF
TRLSKEVMFTEEDVKFYLAELALGLDHLSLGIIYRDLKPENILLDEEGHIKLTDGGLSKEAIDHEKKAYSFCGT
VEYMAPEVVNRQGHSHSADWW SYGVLMFEMLTGSLPFQGKDRKETMTLILKAKLGMPQFLSTEAQSL RALFKRN
PANRLGSGGPDGAE EIKRHFYSTIDWNKLYRREIKPPFKPAVAQPDDTFYFDTEFTSRPKDSPGIPPSAGAHQL
FRGF SFVATGLMEDDGKPRAPQAPLHSVVQQLHGKNLVFSDGYVVKETIGVGSYSECKRCVHKATNMEYAVKVID
KSKRDPSEEIEILLRYGQHPNIITLKDVYDDGKHVYLVTTELMRGGELLDKILRQKFFSEREASFVLHTIGKTVEY
LHSQGVVHRDLKPSNILYVD EGNPECLRICDFGFAKQLRAENGLL MTPCYTANFVAPEVLKRQGYDEGCDIWSL
GILLYTMLAGYTPFANGPSDTPEEILTRIGSGKFTLSGGNWNTVSETAKDLVSKMLHVDPHQRLTAKQVLQHPWV
TQKD KLPQS QL SHQDLQ LVKGAMAAT YSALN SSKPTPQLKPIESSILAQR VRKLPSTTL

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GCGTGGAGGTCGACGACTCCGTCGCAGACTACGGACCTGTCTGGGTCTCAGCCGCCAAAGACCCCCGTCGGTAGG
TGAGTGGCTCACTTGAGGGCAAGCCTCTCGGATCGAGGCTCTTCATGGCCGCTCAGATCGTGAGCGGCCGG
GCTGCTCTTTGCGGAGGATGGCGTCAATGAGCGCAGTGATTGAGGAAGTACTAGCCGGACATC**ATG**GATG
GCTGTCGGTATTCATCGGGAGACTAAATCCAGCGGCCAGGGAGAAGGACGTGAAAGATTCTCAAGGGATATG
GACGGATAAGAGATATTGATCTGAAAAGAGGCTTGGTTGTGAAATTGAGGATCCAAGGGATGCAGATGATG
CTGTGTATGAGCTGATGGAAAAGAACCTCTGAGTGAAAGGGTTACTATTGAACATGCTAGGGCTCGTCAGGAG
GTGGAAGAGGTAGAGGACGATACTCTGACCCTTGTAGTAGTCGCAGACCTCGAAATGATAGACGGTATGTGAAGG
GTGGATGGCTGCATT**TGA**ACAATTATTGTAGGGTAGCATTAAAGATTCAAGGAGTCATTAGCAGTGATGATTTGG
GACCTGCCGTATAATCTGTTCTTCTATTCCCACGTTAGCCAATTGTTCTGATGAATCTATGAGTCATAGAAC
ACAAATCTATTGACGGAAGTCATTAGAATGGCTGTGATATCTGATGGCTTGAACTTGCCCACAGTTGAACACAA
GTGCTGTCATTGCATTCTCATTGTGAATACGAAATTCTTCCTCAGAAATGCTCCACCTGTAAGAACAGAAA
ATCGTCTTATAGTTGAGAATTATCCTCAAGAGTCAGCTGGCAGGATCTCAAAGATTCTAGGACAAGCTGGGG
AAGTAACGTTGCGGATGCAACACCGACCTAAATTAAATGAAGGGGTGGTTGAGTTGCCTTATGGTGAATTAA
AGAATGCTATTGAAAAACTTCTGAAAGGAAATAATTGGAGAAAAATAATTAAATTGAAGGCAGCAAAAGGC
ACAGGTCAAGAACGAGGTCTCGATCCCGGACCGAGAAGTCTCTAGGTCTCGTAGCCGATCCGTTCCGTAGTC
GCAAATCTTACAGCCGGTCAAGAACGAGCAGGAGCAGGAGCCGGAGCCGGAGCAAGTCCGTTGTTAGGTCTC
CCGTGCTGAGAACAGCCAGAAACGTTCTCAAGTAGATCTAAGTCTCAGCATCTGGAATGCCAGAGGT
CCCGGCTCCGATCAAGGTCAGATCAGTGACAGTGGCAATTAAACTGTAATAACTGCCCTGGGGCCTTTT
TTTAAAAAAACAAAACCACAAAATCCCAAACCATACTGCTAAAATTCTGGTAAGTATGTGCTTTCTGTG
GGGGTGGGATTGGAAGGGGGTTGGGTGGCTGGATATCTTGATAGTGAGGACCAAGGGGTGTTGAAA
ACTAATTGTATTAAATGTCTTGATAAGCCTCTGCTCACATTGTAATGTCTGAAGTATATAGTTGTG
ATATTGACAGAGCTTTATAACTAAAGCAAATTAAATTGTAATGACTAGAAAAAAATTGAACATTAGTT
CTGGTTATAAAATGTTAATTGAGAATTAGTTAATGCCCTAATTAAACTAATTAAAGCTTGGACACTTAA
AGAGCTCTAAATTGCTTGACATAAAGGCTTAATTGTTCCCTGTTAGGGTCAAGGGTGTCCACTCTT
AACAGCTGCTGGACAGACACATTAGAGCAGCTGGTTGTTATTGATAATAAAATTATAAAACTA

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FIGURE 706

MSGCRVFIGRLNPAAREKDVERFFKGYGRIRDIDLKRGFGFVEFEDPRDADDAYELDGKELCSERVTIEHARAR
SRGGRGRGRYSDRFSSRRPRNDRRYVKGGWLH

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FIGURE 707

CGCAGCGGAGGTGAAGGACGTCCCTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGTGAAAGGTTCTGTGG
GCTGCGTGTGGTCACATTCCCTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGGCC
GAGCTGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAGTGGCACTGGGACTGGGTCGCTTGGGATTACCTG
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTACCCAGGAAGTGAGGGCG
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCTACAAATCGGAAGTGGAGAACAACTGACCCCGGTGGCGGAG
GAGACGCCGGGACGGCTGTCCAAGGAGCTGCAGGCCGGCGCAGGCCGGCTGGGCGCGACATGGAGGACGTGTGC
GGCCGCCTGGTGCAGTACCGCGGCAGGGCATGCTCGGCCAGAGCACCGAGGAGCTGCGGTGCGCCTC
GCCTCCCACCTGCGCAAGCTCGTAAGCGGCTCTCCCGCATGCCGATGCCGATGACCTGCGAGAGGCCCTGGCAGTGTAC
CAGGCCGGGCCCGCAGGGCGCCGAGCGCGGCCATCGGCCGAGGCCCTGGGCGCCAGCCGCTACAGGAGGCCAGGCCCTGGCAG
CGGCTGCGCGCGGGATGGAGGAGATGGCAGCCGACCGCCTGGACGAGGTGAAGGAGCAGGTGGC
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATAACGCCCTGCAGGCCGAGGCCCTCCAGGCCGCCCTCAAG
AGCTGGTTCGAGCCCCCTGGTGGAAAGACATGCAGGCCAGTGGGCCGGCTGGTGGAGAAGGTGCAGGCTGCCGTG
GGCACCAAGCGCCGCCCTGTGCCAGCGACAATCACTGAACGCCGAAGCTGCGACCCACGCCACC
CCGTGCCCTCCTGCCCTCCCGCAGCCCTGCAGCAGGCCCTGTCCCCGCCAGCCGTCCCTGGGTTGGACCC
TAGTTAATAAAGATTACCAAGTTCACGC

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FIGURE 708

MKVLWAALLVTFLAGCQAKVEQAVETEPEPELROQTEWQSGQRWEALGRFWDYLRLWVQTLSEQVQEELLSSQVT
QELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEE
LRVRLASHLRKLRKLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERA
QAWGERLRARMEEMGSRTRDRLLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFEPLVEDMQRQWAGLVEK
VQAAVGTSAAPVP SDNH

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FIGURE 709A

ATGGCTCACCTAAAGCGACTAGTAAAATTACACATTAAAAGACATTACCATAAAAGTTCTGGAAGCTGGTGCA
 GTAATTTTTCTTATAATAGTTGGTTAACGAAAGAGAAGTAAGTGTCAATATTCAAAGAGGAATCA
 AGGATGGAAAGGAACATGAAAAACAAAACAAGATGTGGATTAATGCTAGAAGCTGTAACAAATATTAAAGGAT
 GCCATGCCAAAATGCAAATAGGAGCACCTGTCAGGCAAAACATTGATGCTGGTAGAGAGACCTTGTCAAGGA
 TATTATACAGCAGCAGAATTGAAGCCTGTCCTGACCGTCCACCTCAGGATTCAAATGCACCTGGTCTCTGGT
 AAAGCATCAAGACAACCAATTAAAGTGTGAAGAGCAAAGGAAAGGAACGTGGGAGCTAAACACTGCTTT
 AATGCTTCGCAAGTGACAGGATTCTTGACCCGAGATCTGGACCAGACACTCGACCTCTGAATGTATTGAA
 CAAAATTAAGCCGTGCCCTCCCCCTGCCACCACAGTGTATAATAGTTTCTATAATGAAGCGTGGTCCACG
 TTGCTTAGAAGTGTCCACAGTGTGCTATTCTCACCTGCAATACTGCTGAAGGAAATCATTGGGATGAT
 GCTAGTGTAGATGAGTACTTACATGATAAAACTAGATGAATAATGTAACAAATTTCTATAGTAAAATAGTCAGA
 CAAAGAGAAAGAAAAGGCTGATCACTGCTCGGTTCTAGGAGCAACAGTCGAAACAGCTGAAACGCTCACATT
 TTAGATGCTCACTGTGAGTGTCTATGGTGGCTAGAACCTCTGTTGGCCAGAATAGCTGAGAACTACACGGCT
 GTCGTAAGTCCAGATATTGCATCCATAGATCTGAACACGTTGAATTCAAACAAACCTCTCCTTATGGAAGTAAC
 CATAACCGTGGAAATTGACTGGAGTCTTCATTGGCTGGAGTCGCTCCTGATCATGAGAAGCAAAGAAGG
 AAAGATGAAACCTACCCAATTAAAACACCCACTTTGCAGGAGGACTTTCCATATCAAAGAATAATTGAG
 TATATTGGAAGCTATGATGAAGAAATGGAATCTGGGAGGTGAAAATATAGAAATGTCTTCAGAGTATGGCAA
 TGTGGTGGGAGTTGGAGATTATGCCTTGCTGTGTTGGACATGTTTCTGCAGCAAAGCCCTATAGCTTT
 CCAAAGGCACTCAGGTGATTGCTAGAAACCAAGTTCGCCTGAGCAGTCTGGATGGATGAATAAGGAAATA
 TTTTATAGGAGAAATACAGATGCAGAAAAATTGTTAAACAAAAGCATTTGGTATCTTCAAAAGATTGAA
 ATAAAACACCGTCTCGGTGAAAAATTTACATGGTATCTGAACAAACATTATCCAGAGGTATGTGCCAGAC
 CTTAATCCTGTTATATCTGGATACATTAAAGCCTGGTCAGCCTCTATGCTGGATGTTGGAGAAAACAATCAA
 GGAGGCAAACCATTAATTATGATACATGTCATGGACTTGGGGAAACAGTACTTGAATAACTCTGCTCAACAT
 GAAATTGGCACAACATCCAGAAGGAATTATGCTTCATGCTGCTCAAGGTCTCGCTCAGCTGAAGGCATGTACC
 TACAAAGGTACAAGACAGTGTCACTGGAGAGCAGATATGGGAGATCCAGAAGGATCAACTCTATACAATCCA
 TTCTTAAAATGTGCTTTCAGCAAATGGAGAGCATCCAAGTTAGTGTATGCAACCCATCAGATCCACTCCAA
 AAATGGACTTAGGCAAAATGATTAGTGTCTTAAATTAAGTGAAGGAAATATTCTTCTATAAAA
 CTGTGACTAGGCATACACTGTAGTTGAAATTATGCAAAGCAGCTAAATGTAACCTATTCAAGTGCATT
 TTCTTATTATATCTTATGTAGCACTACAGAAATTCTGCAAGTTCTGTTCAAAGCACAATAACTAGTAA
 TACCAAAGACTATTCAAAATGTCCAGATGTAGGGGAAGAGATGTTACAGTATGAAATAATTCTCAAGT
 AAAGTGATGTTGTGTTGACTTACAGGATATATATATAGCTACATTACACACTCACAATTAAAAT
 ATTCTCCCTAGTTGGGGGATAGGAAGAAAGATTGTTACTGTATTCTTAAACTACATAAAATAGATCA
 ATAAATGTCAGCATTGGCTCTGTGACAAACCAAGAGCTTTACAGATCCAGAATTATTAGTTAAAATGCAG
 GTGAACTTTGGCGTTGGTTACTGTCTGCAAATGTTCTAAACATGAAACTGAATAAGGAGAAGAG
 TATTTTAAACACTTAAATTCTGGCAAATTAAAACATTTTAGTCTGTAATACACTCCACTTGAAGCATT
 AAGTCTCCTTAAATGACTTTCTTAAGTAATGATACTGTGTTCCAAAGCATTAAATTTTTAT
 AAATTACTATCTGTGAAAAGGTGTCCTTCTTCTTAGTATTCTTACAAAATTCAACTAATCTT
 GAATGTTGTGATATTAAATTCAAATGCAAGAATACTGACTCATTAAAGCTAAATTGTTACTGATTCAATT
 ATAATTGTAATGGATTGTGACTTGTAAATGGATTCTTCTACAAAAGCCTTATTATCTTATCTATGTGGA
 AAACACAATAAAATCCTCAACACTATTGTAATCATTTGGTTAAGTGTCTTCTTGGTAAACCATCAGA
 ATTGATAATAGTGGGGAAAATGAATTGTTGATGCTGAATTCTAAGCGCTATTGTTGTTAAACCATCAGA
 TATTCTTATGGCACAAAAATGAGGAATAGCAAATTCTGTGTTCAATATTAGAAAATTGTTGATTAATTTC
 TGATAAAAGTTCCTTAAGCATGTAGAATGATGTTAAAAAATTGACGCTGCTTAGGAGATTACCACTT
 TTTTTTTGTTTCTGTCATTATTTAGATCTCTGTATTCTGTTCCCAGTAAACATGATCGGTT
 ATATTCTAAATCTGGCAGAGCCTCAGCTGACGAAAAGAGCATATACTGGTTATTGACCCATTCTCTCATTGT
 TTGTTGTAAGTTGATTTGATTAAAAGCCTGCATTGAGCTGGACATGGGGCTCAGCTTCTAATCCCAG
 CACTTGGTAGGCAAAGGTGGAGGATCATTGAGCTCAGGAGTTCCAGACCAGCCTGGCAACATGAAAATC
 TCATCTACAAAAGTAAAATTAAAAAATTGAAATTAAAATTACCTAGGTGTGGCAGCAGTCTGAGCTACAGT
 AGTCCAGCTACAGGAAGGTGAGGCAGAAGCATTGCTGAGCTGGAGATCGAGGCTACAGTGAAGCTATGAT

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FIGURE 709B

TACACCACTGCACTTCAGTCTGTGACTGAGCAAGACTTTCAAAAAAAAAAGCCTACATTCTCCAGTT
GATTATTCCAACAATGTGTATTATGCGCTAATTTCTATCAGAAGTTGTATTAAGCCGTTTCACACTGCT
GTTAAAGACATAACCTGAGACTGGTAATTATAAAGAAAATAGGTTCAATGGACCCACAGGTCCGCGTGGCTGG
GGAAGCTTCACAATCATGGCGGAAGGTGAAAGCATGTCTTACGTGGAAG

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FIGURE 710

MAHLKRLVKLHIKRHYHKKFWKLGAVIDFFIIVLVLMQREVSQYSKEESRMERNMKNKNKMLDLMLEAVNNIKD
AMPKMQIGAPVRQNIDAGERPCLOQYYTAAELKPVLDRPPQDSNAPGASGKAFKTTNLSEEQKEKERGEAKHCF
NAFASDRISLHRDLGPDTRPPECIEQKFKRCPPPLPTSVIIVFHNEAWSTLLRTVHSVLYSSPAILLKEIILVDD
ASVDEYLHDKLDEYVKQFSIVKIVRQRERKGLITARLLGATVATAETLTFLDAHCECFYGWILEPLLARIAENYTA
VVSPDIASIDLNTFEFNKPSPYGSNHNRGNFDWSLSFGWESLPDHEKQRRKDETYPPIKTPTFAGGLFSISKEYFE
YIGSYDEEMEIWGGENIEMSFRVWQCGGQLEIMPCSVVGHVFRSKSPHSFPKGTVQVIARNQVRLAEVWMDEYKEI
FYRRNTDAAKIVKQKAEGDLSKRFEIKHRLRCKNFTWYLNNTYPEVYVPDLNPVISGYIKSVGQPLCLDVGENNQ
GGKPLIMYTCHGLGGNQYFEYSAQHEIRNIQKELCLHAAQGLVQLKACTYKGHKTVVTGEQIWEIQKDQLLYNP
FLKMCLSANGEHPSLVSCNPSDPLQKWILSQND